## Lewis-Y Monoclonal Mouse Antibody (LWY/1463)

## **Product Description**

This antibody recognizes a carbohydrate epitope present on tumor-associated Lewis Y antigen (Fucalpha1-2Galbeta1-4/3[Fucalpha1-3/4]GlcNAcbeta). Lewis Y is expressed in large bowel tumors and colorectal carcinomas. It may be useful in the classification of human renal and bladder tumors. The Lewis Y antigen has been evaluated as a clinical marker for the diagnosis and prognosis of cholangiocarcinoma, hepatocellular carcinoma and breast cancer.

Primary antibodies are available purified, or with a selection of fluorescent CF® dyes and other labels. CF® dyes offer exceptional brightness and photostability. See the CF® Dye Brochure for more information. Note: Conjugates of blue fluorescent dyes like CF®405S and CF®405M are not recommended for detecting low abundance targets, because blue dyes have lower fluorescence and can give higher non-specific background than other dye colors.

Stock status: Because Biotium offers a large number of antibody and conjugation options, primary antibody conjugates may be made to order. Typical lead times are up to one week for CF® dye and biotin conjugates, and up to 2-3 weeks for fluorescent protein and enzyme conjugates. Please email <a href="mailto:order@biotium.com">order@biotium.com</a> to inquire about stock status and lead times before placing your order.

Catalog number key for antibody number 1463, Anti-Lewis-Y (LWY/1463)

## Product attributes

Antibody reactivity (target) Antibody reactivity (target) Lewis-Y Antibody type Primary Host species Mouse Clonality Monoclonal Clone LWY/1463 Isotype IgG1, kappa Molecular weight Multiple Synonyms Lewis Y antigen Human gene symbol Not Applicable Entrez gene ID Not Applicable Immunogen Not Applicable Unigene Not Applicable Immunogen Human colon carcinoma cells Antibody target cellular localization Verified antibody applications  Species reactivity Human Antibody application notes Higher concentration may be required for direct detection using primary antibody conjugates than for indirect detection with secondary antibody. Immunofluorescence: 0.5-1 ug/mL, Staining of formalin-fixed tissues requires boiling tissue sections in 10 mM citrate buffer; pH 6.0, for 10-20 min followed by cooling at RT for 20 min, Flow Cytometry 0.5-1 ug/mllion cells/0.1 mL, Optimal dilution for a specific application should be determined by user  Positive control Lung, Colon, Bladder or Hepatocellular Carcinoma Shipping condition Room temperature  Positive Control Storage Conditions Storage Conditions Storage Conditions Conjugates: 0.1 mg/mL in PBS/0.05% azide, HRP conjugates: 0.1 mg/mL in PBS/0.05% BSA/0.05% azide, Purified: 0.2 mg/mL in PBS without azide  Antibody research areas Product origin Product may contain either bovine serum albumin (BSA) from bovine serum (Bos taurus), or recombinant BSA produced in Chinese hamster ovary cells. Inquire for the specific lot.  Tumor expression	Product attributes				
Antibody type Primary  Host species Mouse  Clonality Monoclonal  Clone LWY/1463  Isotype IgG1, kappa  Molecular weight Multiple  Synonyms Lewis Y antigen  Human gene symbol Not Applicable  Entrez gene ID Not Applicable  SwissProt Not Applicable  Immunogen Human colon carcinoma cells  Antibody target cellular localization  Verified antibody application Notes  Species reactivity Human  Antibody application notes  Higher concentration may be required for direct detection using primary antibody. Immunofilarily of formalin-fixed tissues requires boiling tissue sections in 10 mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 min, Flow Cytometry 0.5-1 ug/million cells/0.1 mil., Optimal dilution for a specific application should be determined by user  Positive control Lung, Colon, Bladder or Hepatocellular Carcinoma  Shipping condition  Store at 2 to 8 °C, Protect fluorescent conjugates from light, Note: store BSA-free antibodies at -10 to -35 °C  Shelf life Guaranteed for at least 24 months from date of receipt when stored as recommended  Regulatory status For research use only (RUO)  Antibody/conjugate formulation  Product origin Product may contain either bovine serum albumin (BSA) from bovine serum (Bos taurus), or recombinant BSA produced in Chinese hamster ovary cells. Inquire for the specific lot.	Antibody number	#1463			
Host species Mouse  Clonality Monoclonal  Clone LWY/1463  Isotype IgG1, kappa  Molecular weight Multiple  Synonyms Lewis Y antigen  Human gene symbol Not Applicable  Entrez gene ID Not Applicable  SwissProt Not Applicable  Immunogen Human colon carcinoma cells  Antibody target cellular localization  Verified antibody application notes  Antibody application notes  Higher concentration may be required for direct detection using primary antibody conjugates than for indirect detection with secondary antibody, Immunofiluorescence: 0.5-1 ug/mL, Immunofisationy (formalin): 0.5-1 ug/mL, Staining of formalin-fixed tissues requires boiling tissue sections in 10 mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 min, Flow Cytometry 0.5-1 ug/million cells: 0.1 mil., Optimal dilution for a specific application should be determined by user  Positive control Lung, Colon, Bladder or Hepatocellular Carcinoma  Shipping condition  Room temperature  Storage Conditions  Store at 2 to 8 °C, Protect fluorescent conjugates from light, Note: store BSA-free antibodies at -10 to -35 °C  Shelf life Guaranteed for at least 24 months from date of receipt when stored as recommended  Regulatory status For research use only (RUO)  Antibody/conjugate formulation  Antibody research areas  Product origin  Product may contain either bovine serum albumin (BSA) from bovine serum (Bos taurus), or recombinant BSA produced in Chinese hamster ovary cells. Inquire for the specific lot.	Antibody reactivity (target)	Lewis-Y			
Clone LWY/1463  Isotype IgG1, kappa  Molecular weight Multiple  Synonyms Lewis Y antigen  Human gene symbol Not Applicable  Entrez gene ID Not Applicable  SwissProt Not Applicable  Immunogen Human colon carcinoma cells  Antibody target cellular localization  Verified antibody application notes  Species reactivity Human  Antibody application notes  Higher concentration may be required for direct detection using primary antibody conjugates than for indirect detection with secondary antibody, Immunofluorescence: 0.5-1 ug/mL, Immunohistology (formalin): 0.5-1 ug/mL, Staining of formalin-fixed tissues requires boiling tissue sections in 10 mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 min, Flow Cytometry 0.5-1 ug/mllilon cells/0.1 mL, Optimal dilution for a specific application should be determined by user  Positive control Lung, Colon, Bladder or Hepatocellular Carcinoma  Shipping condition  Room temperature  Storage Conditions  Store at 2 to 8 °C, Protect fluorescent conjugates from light, Note: store BSA-free antibodies at -10 to -35 °C  Shelf life Guaranteed for at least 24 months from date of receipt when stored as recommended  Regulatory status  For research use only (RUO)  Antibody/conjugate formulation  PBS/0.05% BSA/0.05% BSA, Purified: 0.2 mg/mL in PBS/0.05% BSA, Purified: 0.2 mg/mL in PBS/0.05% BSA, Purified: 0.2 mg/mL in PBS/0.05% BSA, Purified; 0.5 mg/mL in PBS/0.05% BSA, Purified; 0.2 mg/mL in PBS/0.05% BSA, Purifie	Antibody type	Primary			
Isotype   IgG1, kappa	Host species	Mouse			
Isotype   IgG1, kappa   Molecular weight   Multiple	Clonality	Monoclonal			
Molecular weight Synonyms Lewis Y antigen Human gene symbol Not Applicable Entrez gene ID Not Applicable SwissProt Not Applicable Immunogen Human colon carcinoma cells Antibody target cellular localization Verifiled antibody applications HIC (FFPE) (verified)  Species reactivity Human Antibody application notes Higher concentration may be required for direct detection using primary antibody, Immunofluorescence: 0.5-1 ug/mL, Immunohistology (formalin): 0.5-1 ug/mL, Staining of formalin-fixed tissues requires boiling tissue sections in 10 mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 min, Flow Cytometry 0.5-1 ug/mIL or 10-20 min followed by user  Positive control Lung, Colon, Bladder or Hepatocellular Carcinoma Shipping condition Storage Conditions Storage Conditions Store at 2 to 8 °C, Protect fluorescent conjugates from light, Note: store BSA-free antibodies at -10 to -35 °C Shelf life Guaranteed for at least 24 months from date of receipt when stored as recommended Regulatory status For research use only (RUO) Antibody/conjugate formulation PBS/0.05% BSA/0.05% BSA/0.05% BSA, Purified: 0.2 mg/mL in PBS/0.05% BSA/0.05% BSA, Purified: 0.2 mg/mL in PBS/0.05% BSA/0.05% BSA, Purified; 0.2 mg/mL in PBS/0.05% BSA, Purified; 0.2 mg/mL in PBS/0.05% BSA/0.05% azide, Purified, BSA-free: 1 mg/mL in PBS/0.05% BSA/0.05% azide, Purified; 0.2 mg/mL in PBS/0.05% BSA/0.05%	Clone	LWY/1463			
Synonyms   Lewis Y antigen	Isotype	IgG1, kappa			
Human gene symbol  Entrez gene ID  Not Applicable  SwissProt  Not Applicable  Immunogen  Not Applicable  Immunogen  Human colon carcinoma cells  Antibody target cellular localization  Verifiled antibody applications  IHC (FFPE) (verified)  Human  Antibody application notes  Higher concentration may be required for direct detection using primary antibody, Immunofluorescence: 0.5-1 ug/mL, Immunohistology (formalin): 0.5-1 ug/mL, Staining of formalin-fixed tissues requires boiling tissue sections in 10 mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 min, Flow Cytometry 0.5-1 ug/mL glaining of some specific application should be determined by user  Positive control  Lung, Colon, Bladder or Hepatocellular Carcinoma  Shipping condition  Room temperature  Storage Conditions  Store at 2 to 8 °C, Protect fluorescent conjugates from light, Note: store BSA-free antibodies at -10 to -35 °C  Shelf life  Guaranteed for at least 24 months from date of receipt when stored as recommended  Regulatory status  For research use only (RUO)  Antibody/conjugate formulation  PBS/0.05% BSA/0.05% BSA/0.05% BSA, Purified: 0.2 mg/mL in PBS/0.05% BSA/0.05% BSA, Purified: 0.2 mg/mL in PBS/0.05% BSA, Purified, BSA-free: 1 mg/mL in PBS/0.05% BSA, Purified, BSA-free: 1 mg/mL in PBS/0.05% BSA/0.05% azide, Purified, BSA-free: 1 mg/mL in PBS/0.05% BSA/0.05% azide, Purified, BSA-free: 1 mg/mL in PBS/0.05% BSA/0.05%	Molecular weight	Multiple			
Entrez gene ID  SwissProt  Not Applicable  Unigene  Immunogen  Human colon carcinoma cells  Antibody target cellular localization  Verified antibody applications  Species reactivity  Human  Antibody application notes  Higher concentration may be required for direct detection using primary antibody, Immunofluorescence: 0.5-1 ug/mL, Immunohistology (formalin): 0.5-1 ug/mL, Staining of formalin-fixed tissues requires boiling tissue sections in 10 mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 min, Flow Cytometry 0.5-1 ug/mllion cells/0.1 mL, Optimal dilution for a specific application should be determined by user  Positive control  Lung, Colon, Bladder or Hepatocellular Carcinoma  Shipping condition  Storage Conditions  Store at 2 to 8 °C, Protect fluorescent conjugates from light, Note: store BSA-free antibodies at -10 to -35 °C  Shelf life  Guaranteed for at least 24 months from date of receipt when stored as recommended  Regulatory status  For research use only (RUO)  Antibody/conjugate formulation  Antibody research areas  Cancer  Product origin  Product may contain either bovine serum albumin (BSA) from bovine serum (Bos taurus), or recombinant BSA produced in Chinese hamster ovary cells. Inquire for the specific lot.	Synonyms	Lewis Y antigen			
SwissProt Not Applicable  Unigene Not Applicable  Immunogen Human colon carcinoma cells  Antibody target cellular localization  Verifiled antibody applications  IHC (FFPE) (verified)  Human  Antibody applications  Figure concentration may be required for direct detection using primary antibody, Immunofluorescence: 0.5-1 ug/mL, Immunohistology (formalin): 0.5-1 ug/mL, Staining of formalin-fixed tissues requires boiling tissue sections in 10 mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 min, Flow Cytometry 0.5-1 ug/mL or 10-20 min followed by cooling at RT for 20 min, Flow Cytometry 0.5-1 ug/mL or 10-20 min followed by user  Positive control Lung, Colon, Bladder or Hepatocellular Carcinoma  Shipping condition  Storage Conditions  Store at 2 to 8 °C, Protect fluorescent conjugates from light, Note: store BSA-free antibodies at -10 to -35 °C  Shelf life Guaranteed for at least 24 months from date of receipt when stored as recommended  Regulatory status For research use only (RUO)  Antibody/conjugate formulation  Antibody research areas  Cancer  Product origin  Product may contain either bovine serum albumin (BSA) from bovine serum (Bos taurus), or recombinant BSA produced in Chinese hamster ovary cells. Inquire for the specific lot.	Human gene symbol	Not Applicable			
Unigene Not Applicable Immunogen Human colon carcinoma cells  Antibody target cellular localization  Verified antibody applications  Species reactivity  Antibody application notes  Higher concentration may be required for direct detection using primary antibody, Immunofluorescence: 0.5-1 ug/mL, Impunorluorescence: 0.5-1 ug/mL, I	Entrez gene ID	Not Applicable			
Immunogen         Human colon carcinoma cells           Antibody target cellular localization         Cytoplasmic, Plasma membrane, Secreted (extracellular)           Verified antibody applications         IHC (FFPE) (verified)           Species reactivity         Human           Antibody application notes         Higher concentration may be required for direct detection using primary antibody conjugates than for indirect detection with secondary antibody, Immunofluorescence: 0.5-1 ug/mL, Immunofluorescence: 0.5-1 u	SwissProt	Not Applicable			
Antibody target cellular localization  Verified antibody applications  HC (FFPE) (verified)  HIVE (FFPE) (verified)  HIVE (FFPE) (verified)  HIVE (FFPE) (verified)  HIVE (FFPE) (verified)  Higher concentration may be required for direct detection using primary antibody conjugates than for indirect detection with secondary antibody, Immunofluorescence: 0.5-1 ug/mL, Immunohistology (formalin): 0.5-1 ug/mL, Staining of formalin-fixed tissues requires boiling tissue sections in 10 mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 min, Flow Cytometry 0.5-1 ug/mL] on the Open at RT for 20 min, Flow Cytometry 0.5-1 ug/mL] on the Open at RT for 20 min, Flow Cytometry 0.5-1 ug/mlilion cells/0.1 mL, Optimal dilution for a specific application should be determined by user  Positive control  Lung, Colon, Bladder or Hepatocellular Carcinoma  Storage Conditions  Store at 2 to 8 °C, Protect fluorescent conjugates from light, Note: store BSA-free antibodies at -10 to -35 °C  Shelf life  Guaranteed for at least 24 months from date of receipt when stored as recommended  Regulatory status  For research use only (RUO)  Antibody/conjugate formulation  Conjugates: 0.1 mg/mL in PBS/0.05% BSA/0.05% azide, HRP conjugates: 0.1 mg/mL in PBS/0.05% BSA, Purified: 0.2 mg/mL in PBS/0.05% BSA/0.05% BSA, Purified; 0.2 mg/mL in PBS/0.05% BSA/0.05% BSA/0.	Unigene	Not Applicable			
Verified antibody applications	Immunogen	Human colon carcinoma cells			
applications  Species reactivity  Antibody application notes  Higher concentration may be required for direct detection using primary antibody conjugates than for indirect detection with secondary antibody, Immunofluorescence: 0.5-1 ug/mL, Immunohistology (formalin): 0.5-1 ug/mL, Staining of formalin-fixed tissues requires boiling tissue sections in 10 mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 min, Flow Cytometry 0.5-1 ug/mllion cells/0.1 mL, Optimal dilution for a specific application should be determined by user  Positive control  Lung, Colon, Bladder or Hepatocellular Carcinoma  Shipping condition  Room temperature  Storage Conditions  Store at 2 to 8 °C, Protect fluorescent conjugates from light, Note: store BSA-free antibodies at -10 to -35 °C  Shelf life  Guaranteed for at least 24 months from date of receipt when stored as recommended  Regulatory status  For research use only (RUO)  Antibody/conjugate formulation  Conjugates: 0.1 mg/mL in PBS/0.05% BSA, Purified: 0.2 mg/mL in PBS/0.05% BSA-free: 1 mg		Cytoplasmic, Plasma membrane, Secreted (extracellular)			
Antibody application notes  Higher concentration may be required for direct detection using primary antibody conjugates than for indirect detection with secondary antibody. Immunofluorescence: 0.5-1 ug/mL, Immunohistology (formalin): 0.5-1 ug/mL, Staining of formalin-fixed tissues requires boiling tissue sections in 10 mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 min, Flow Cytometry 0.5-1 ug/mllilon cells/0.1 mL, Optimal dilution for a specific application should be determined by user  Positive control  Lung, Colon, Bladder or Hepatocellular Carcinoma  Shipping condition  Room temperature  Storage Conditions  Store at 2 to 8 °C, Protect fluorescent conjugates from light, Note: store BSA-free antibodies at -10 to -35 °C  Shelf life  Guaranteed for at least 24 months from date of receipt when stored as recommended  Regulatory status  For research use only (RUO)  Antibody/conjugate formulation  Conjugates: 0.1 mg/mL in PBS/0.05% BSA/0.05% azide, HRP conjugates: 0.1 mg/mL in PBS/0.05% BSA/Free: 1 mg/mL in PBS/0.05% BSA/free: 1 mg/mL in PBS without azide  Antibody research areas  Cancer  Product origin  Product may contain either bovine serum albumin (BSA) from bovine serum (Bos taurus), or recombinant BSA produced in Chinese hamster ovary cells. Inquire for the specific lot.		IHC (FFPE) (verified)			
primary antibody conjugates than for indirect detection with secondary antibody. Immunofluorescence: 0.5-1 ug/mL, Staining of formalin-fixed tissues requires boiling tissue sections in 10 mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 min, Flow Cytometry 0.5-1 ug/million cells/0.1 mL, Optimal dilution for a specific application should be determined by user  Positive control  Lung, Colon, Bladder or Hepatocellular Carcinoma  Shipping condition  Room temperature  Storage Conditions  Store at 2 to 8 °C, Protect fluorescent conjugates from light, Note: store BSA-free antibodies at -10 to -35 °C  Shelf life  Guaranteed for at least 24 months from date of receipt when stored as recommended  Regulatory status  For research use only (RUO)  Antibody/conjugate formulation  Conjugates: 0.1 mg/mL in PBS/0.05% BSA/0.05% azide, HRP conjugates: 0.1 mg/mL in PBS/0.05% BSA, Purified: 0.2 mg/mL in PBS/0.05% BSA/0.05% BSA/0.05% BSA/free: 1 mg/mL in PBS/0.05% B	Species reactivity	Human			
Shipping condition   Room temperature	Antibody application notes	primary antibody conjugates than for indirect detection with secondary antibody, Immunofluorescence: 0.5-1 ug/mL, Immunohistology (formalin): 0.5-1 ug/mL, Staining of formalin-fixed tissues requires boiling tissue sections in 10 mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 min, Flow Cytometry 0.5-1 ug/million cells/0.1 mL, Optimal			
Storage Conditions	Positive control	Lung, Colon, Bladder or Hepatocellular Carcinoma			
Note: store BSA-free antibodies at -10 to -35 ° C  Shelf life  Guaranteed for at least 24 months from date of receipt when stored as recommended  Regulatory status  For research use only (RUO)  Antibody/conjugate formulation  Conjugates: 0.1 mg/mL in PBS/0.05% BSA/0.05% azide, HRP conjugates: 0.1 mg/mL in PBS/0.05% BSA/Purified: 0.2 mg/mL in PBS/0.05% BSA/0.05% BSA/0.05% BSA-free: 1 mg/mL in PBS without azide  Antibody research areas  Cancer  Product origin  Product may contain either bovine serum albumin (BSA) from bovine serum (Bos taurus), or recombinant BSA produced in Chinese hamster ovary cells. Inquire for the specific lot.	Shipping condition	Room temperature			
stored as recommended  Regulatory status For research use only (RUO)  Antibody/conjugate formulation Conjugates: 0.1 mg/mL in PBS/0.1% BSA/0.05% azide, HRP conjugates: 0.1 mg/mL in PBS/0.05% BSA, Purified: 0.2 mg/mL in PBS/0.05% BSA/0.05% BSA, Purified: 0.2 mg/mL in PBS/0.05% BSA/0.05% azide, Purified, BSA-free: 1 mg/mL in PBS/0.05% azide, Purified; 0.2 mg/mL in PBS/0.05% azide, Purified; 0.5% azide, Pu	Storage Conditions				
Antibody/conjugate formulation  Conjugates: 0.1 mg/mL in PBS/0.1% BSA/0.05% azide, HRP conjugates: 0.1 mg/mL in PBS/0.05% BSA, Purified: 0.2 mg/mL in PBS/0.05% BSA/0.05% BSA, Purified, BSA-free: 1 mg/mL in PBS without azide  Antibody research areas  Cancer  Product origin  Product may contain either bovine serum albumin (BSA) from bovine serum (Bos taurus), or recombinant BSA produced in Chinese hamster ovary cells. Inquire for the specific lot.	Shelf life				
formulation conjugates: 0.1 mg/mL in PBS/0.05% BSA, Purified: 0.2 mg/mL in PBS/0.05% BSA/0.05% BSA/0.05% BSA/free: 1 mg/mL in PBS/0.05% azide, Purified, BSA-free: 1 mg/mL in PBS without azide  Antibody research areas Cancer  Product origin Product may contain either bovine serum albumin (BSA) from bovine serum (Bos taurus), or recombinant BSA produced in Chinese hamster ovary cells. Inquire for the specific lot.	Regulatory status	For research use only (RUO)			
Product origin  Product may contain either bovine serum albumin (BSA) from bovine serum (Bos taurus), or recombinant BSA produced in Chinese hamster ovary cells. Inquire for the specific lot.		conjugates: 0.1 mg/mL in PBS/0.05% BSA, Purified: 0.2 mg/mL in PBS/0.05% BSA/0.05% azide, Purified, BSA-free: 1 mg/mL in			
bovine serum (Bos taurus), or recombinant BSA produced in Chinese hamster ovary cells. Inquire for the specific lot.	Antibody research areas	Cancer			
Tumor expression Bladder cancer, Colorectal cancer, Renal cancer	Product origin	bovine serum (Bos taurus), or recombinant BSA produced in			
	Tumor expression	Bladder cancer, Colorectal cancer, Renal cancer			

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Antibody # prefix	Conjugation	Ex/Em (nm)	Laser line	Detection channel	Dye Features
BNC04	CF®405S	404/431	405	DAPI (microscopy), AF405	CF®405S Features
BNC88	CF®488A	490/515	488	GFP, FITC	CF®488A Features
BNC68	CF®568	562/583	532, 561	RFP, TRITC	CF®568 Features
BNC94	CF®594	593/614	561	Texas Red®	CF®594 Features
BNC40	CF®640R	642/662	633-640	Cy®5	CF®640R Features
BNC47	CF®647	650/665	633-640	Cy®5	CF®647 Features
BNC74	CF®740	742/767	633-685	775/50	CF®740 Features
BNCB	Biotin	N/A	N/A	N/A	
BNUB	Purified	N/A	N/A	N/A	
BNUM	Purified, BSA-free	N/A	N/A	N/A	

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