## TAG-72 / CA72.4 Monoclonal Mouse Antibody (CA72/145)

## **Product Description**

Recognizes an oncofetal antigen of 220 kDa, identified as a tumor-associated glycoprotein (TAG-72) with properties of a mucin. The majority of human adenocarcinomas including colorectal, pancreatic, gastric, ovarian, endometrial, mammary, and non-small cell lung cancer display some cell populations that are positive for TAG72. About 60% of carcinoma patients express TAG72 in their sera. TAG72 is reportedly useful in distinguishing pulmonary adenocarcinomas from pleural mesotheliomas.

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 order@biotium.com to inquire about stock status and lead times before placing your order.

Catalog number key for antibody number 0145, Anti-CA72.4 (CA72/145)

Call us: 800-304-5357

Antibody number #0145 Antibody reactivity (target) CA72.4, TAG-72 Antibody type Primary Host species Mouse Clonality Monoclonal Clone CA72/145 Isotype IgG1, kappa Molecular weight 220 kDa Synonyms CA72.4, Tumor associated glycoprotein 72 Human gene symbol tag-72 Entrez gene ID 182875 SwissProt Not Known Unigene Not Known Unigene Not Known Immunogen Human CA72.4 protein Antibody target cellular Cytoplasmic, Plasma membrane Species reactivity Human Antibody application notes For coating for ELISA, order Ab without BSA, Higher concentration may be required for direct detection using primary antibody, Optimal dilution and staining procedure for a specific application should be determined by user, Recommended starting concentrations for titration are 1-2 ug/ml. for most applications, or 1 ug/million cells/100 uL for flow cytometry  Positive control Jurkat cells, Breast or lung carcinoma. Shipping condition Room temperature Storage Conditions Storage Conditions For research use only (RUO) Antibody/conjugate For research use only (RUO) Antibody/conjugate Conjugates: 0.1 mg/mL in PBS/0.1% BSA/0.05% BSA/0.05	Product attributes			
Antibody type Host species Mouse Clonality Monoclonal Clone CA72/145 Isotype IgG1, kappa Molecular weight 220 kDa Synonyms CA72.4, Tumor associated glycoprotein 72 Human gene symbol tag-72 Entrez gene ID 182875 SwissProt Not Known Unigene Not Known Immunogen Antibody target cellular Species reactivity Human Antibody application notes SSA, Higher concentration may be required for direct detection using primary antibody, optimal dilution and staining procedure for a specific application should be determined by user, Recommended starting concentrations for titration are 1-2 ug/ml. for most applications, or 1 ug/million cells/100 uL for flow cytometry  Positive control Storage Conditions Store at 2 to 8 °C, Protect fluorescent conjugates from light, Note: store BSA-free antibodies at -10 to -35 °C Guaranteed for at least 24 months from date of receipt when stored as recommended Regulatory status For research use only (RUO) Antibody/conjugate formulation PSS/0.05% a2ide, HRP conjugates: 0.1 mg/mL in PBS/0.05% a2ide, Purified, BSA-free: 1 mg/mL in PBS without azide  Antibody research areas Cell/tissue expression Epithelial cells	Antibody number	#0145		
Host species  Clonality  Monoclonal  Clone  CA72/145  Isotype  IgG1, kappa  Molecular weight  Synonyms  CA72.4, Tumor associated glycoprotein 72  Human gene symbol  tag-72  Entrez gene ID  182875  SwissProt  Not Known  Unigene  Not Known  Immunogen  Antibody target cellular  Species reactivity  Antibody application notes  SSA, Higher concentration may be required for direct detection using primary antibody, optimal dilution and staining procedure for a specific application should be determined by user, Recommended starting concentrations for titration are 1-2 ug/mL for most applications, or 1 ug/million cells/100 uL for flow cytometry  Positive control  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  Guaranteed for at least 24 months from date of receipt when stored as recommended  Regulatory status  Antibody/conjugate for mulation  Antibody research areas  Cancer  Cell/tissue expression  Epithelial cells	Antibody reactivity (target)	CA72.4, TAG-72		
Clonality Clone CA72/145 Isotype IgG1, kappa Molecular weight 220 kDa Synonyms CA72.4, Tumor associated glycoprotein 72 Human gene symbol tag-72 Entrez gene ID 182875 SwissProt Not Known Unigene Not Known Immunogen Antibody target cellular Species reactivity Antibody application notes BSA, Higher concentration may be required for direct detection using primary antibody conjugates than for indirect detection with secondary antibody, Optimal dilution and staining procedure for a specific applications for titration are 1-2 ug/mL for most applications, or 1 ug/million cells/100 uL for flow cytometry  Positive control Shipping condition Storage Conditions Storage Conditions For treatment of the conditions of the conditions of the conditions are commended starting concentrations for titration are 1-2 ug/mL for most applications, or 1 ug/million cells/100 uL for flow cytometry  Positive control Storage Conditions Storage Conditions For research use only (RUO) Antibody/conjugate For research use only (RUO) Antibody/conjugate For research use only (RUO) Antibody research areas Cancer Cell/tissue expression Epithelial cells	Antibody type	Primary		
Clone   CA72/145   Isotype   IgG1, kappa   Molecular weight   220 kDa   Synonyms   CA72.4, Tumor associated glycoprotein 72   Human gene symbol   tag-72   Entrez gene ID   182875   SwissProt   Not Known   Unigene   Not Known   Immunogen   Human CA72.4 protein   Antibody target cellular   Cytoplasmic, Plasma membrane   Human CA72.4 protein   Antibody application notes   For coating for ELISA, order Ab without BSA, Higher concentration may be required for direct detection using primary antibody conjugates than for indirect detection with secondary antibody, Optimal dilution and staining procedure for a specific application should be determined by user, Recommended starting concentrations for titration are 1-2 ug/mL for most applications, or 1 ug/million cells/100 uL for flow cytometry   Positive control   Jurkat cells, Breast or lung 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   Guaranteed for at least 24 months from date of receipt when stored as recommended   Regulatory status   For research use only (RUO)   Antibody/conjugate   Conjugates: 0.1 mg/mL in PBS/0.05% BSA, Purifiect: 0.2 mg/mL in PBS/0.05% BSA,	Host species	Mouse		
Isotype	Clonality	Monoclonal		
Molecular weight   220 kDa	Clone	CA72/145		
Synonyms  CA72.4, Tumor associated glycoprotein 72  Human gene symbol  tag-72  Entrez gene ID  182875  SwissProt  Not Known  Unigene  Not Known  Human CA72.4 protein  Antibody target cellular  Species reactivity  Antibody application notes  BSA, Higher concentration may be required for direct detection using primary antibody conjugates than for indirect detection with secondary antibody, Optimal dilution and staining procedure for a specific application should be determined by user, Recommended starting concentrations for titration are 1-2 ug/mL for most applications, or 1 ug/million cells/100 uL for flow cytometry  Positive control  Jurkat cells, Breast or lung 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  Guaranteed for at least 24 months from date of receipt when stored as recommended  Regulatory status  For research use only (RUO)  Antibody/conjugate formulation  Positive control  Shipping condition  Conjugates: 0.1 mg/mL in PBS/0.15% BSA/0.05% BSA, Purifiect: 0.2 mg/mL in PBS/0.05% BSA, Purifiect: 0.2 mg/mL in	Isotype	IgG1, kappa		
Human gene symbol  tag-72  Entrez gene ID  182875  SwissProt  Not Known  Unigene  Not Known  Human CA72.4 protein  Antibody target cellular  Species reactivity  Antibody application notes  BSA, Higher concentration may be required for direct detection using primary antibody. Conjugates than for indirect detection with secondary antibody, Optimal dilution and staining procedure for a specific application should be determined by user, Recommended starting concentrations for titration are 1-2 ug/mL for most applications, or 1 ug/million cells/100 uL for flow cytometry  Positive control  Jurkat cells, Breast or lung 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  Guaranteed for at least 24 months from date of receipt when stored as recommended  Regulatory status  Antibody/conjugate  formulation  For research use only (RUO)  Conjugates: 0.1 mg/mL in PBS/0.05% BSA, Purifiect: 0.2 mg/mL in PBS/0.05% BSA, Puri	Molecular weight	220 kDa		
Entrez gene ID  SwissProt  Not Known  Unigene  Not Known  Immunogen  Antibody target cellular  Species reactivity  Antibody application notes  For coating for ELISA, order Ab without BSA, Higher concentration may be required for direct detection using primary antibody, Optimal dilution and statining procedure for a specific application should be determined by user, Recommended starting concentrations for titration are 1-2 ug/ml. for most applications, or 1 ug/million cells/100 uL for flow cytometry  Positive control  Jurkat cells, Breast or lung carcinoma.  Shipping condition  Storage Conditions  St	Synonyms			
SwissProt Unigene Not Known  Human CA72.4 protein  Antibody target cellular Species reactivity Human  Antibody application notes For coating for ELISA, order Ab without BSA, Higher concentration may be required for direct detection using primary antibody conjugates than for indirect detection with secondary antibody, Optimal dilution and staining procedure for a specific application should be determined by user, Recommended starting concentrations for titration are 1-2 ug/mL for most applications, or 1 ug/mIllion cells/100 uL for flow cytometry  Positive control Jurkat cells, Breast or lung 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% azide, HRP conjugates: 0.1 mg/mL in PBS/0.05% BSA, Purified: 0.2 mg/mL in PBS/0.05% BSA, O.05% azide, Purified, BSA-free: 1 mg/mL in PBS without azide  Antibody research areas Cell/tissue expression Epithelial cells	Human gene symbol	tag-72		
Unigene Not Known  Immunogen  Antibody target cellular  Species reactivity  Human  Antibody application notes  For coating for ELISA, order Ab without BSA, Higher concentration may be required for direct detection using primary antibody conjugates than for indirect detection with secondary antibody, Optimal dilution and staining procedure for a specific application should be determined by user, Recommended starting concentrations for titration are 1-2 ug/mL for most applications, or 1 ug/million cells/100 uL for flow cytometry  Positive control  Jurkat cells, Breast or lung 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  Positive control  Room temperature  Conjugates: 0.1 mg/mL in PBS/0.15% BSA/0.05% azide, Purified, BSA-free: 1 mg/mL in PBS without azide  Antibody research areas  Cancer  Cell/tissue expression  Epithelial cells	Entrez gene ID	182875		
Immunogen         Human CA72.4 protein           Antibody target cellular         Cytoplasmic, Plasma membrane           Species reactivity         Human           Antibody application notes         For coating for ELISA, order Ab without BSA, Higher concentration may be required for direct detection using primary antibody conjugates than for indirect detection with secondary antibody, Optimal dilution and staining procedure for a specific application should be determined by user, Recommended starting concentrations for titration are 1-2 ug/mL for most applications, or 1 ug/mIllion cells/100 uL for flow cytometry           Positive control         Jurkat cells, Breast or lung 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, Purlied: 0.2 mg/mL in PBS/0.05% BS	SwissProt	Not Known		
Antibody target cellular  Species reactivity  Antibody application notes  For coating for ELISA, order Ab without BSA, Higher concentration may be required for direct detection using primary antibody conjugates than for indirect detection with secondary antibody, Optimal dilution and statining procedure for a specific application should be determined by user, Recommended starting concentrations for titration are 1-2 ug/ml. for most applications, or 1 ug/million cells/100 uL for flow cytometry  Positive control  Jurkat cells, Breast or lung 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  Positive control  Storage Conditions  Conjugates: 0.1 mg/mL in PBS/0.15% BSA/0.05% azide, Purified, BSA-free: 1 mg/mL in PBS without azide  Antibody research areas  Cancer  Cell/tissue expression  Epithelial cells	Unigene	Not Known		
Species reactivity	Immunogen	Human CA72.4 protein		
Antibody application notes  For coating for ELISA, order Ab without BSA, Higher concentration may be required for direct detection using primary antibody conjugates than for indirect detection with secondary antibody, Optimal dilution and statining procedure for a specific application should be determined by user, Recommended starting concentrations for titration are 1-2 ug/mL for most applications, or 1 ug/million cells/100 uL for flow cytometry.  Positive control  Jurkat cells, Breast or lung 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  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, O.05% azide, Purified, BSA-free: 1 mg/mL in PBS without azide  Antibody research areas  Cancer  Cell/tissue expression  Epithelial cells	Antibody target cellular	Cytoplasmic, Plasma membrane		
BSA, Higher concentration may be required for direct detection using primary antibody conjugates than for indirect detection with secondary antibody, Optimal dilution and statining procedure for a specific application should be determined by user, Recommended starting concentrations for titration are 1-2 ug/ml. for most applications, or 1 ug/million cells/100 uL for flow cytometry  Positive control  Jurkat cells, Breast or lung carcinoma.  Shipping condition  Room temperature  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  Conjugates: 0.1 mg/mL in PBS/0.15% BSA/0.05% azide, HRP conjugates: 0.1 mg/mL in PBS/0.5% BSA, Purified: 0.2 mg/mL in PBS/0.05% BSA, O.05% azide, Purified, BSA-free: 1 mg/mL in PBS without azide  Antibody research areas  Cancer  Cell/tissue expression  Epithelial cells	Species reactivity	Human		
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  BSA/0.05% azide, HRP conjugates: 0.1 mg/mL in PBS/0.15% azide, Purified; 0.2 mg/mL in PBS/0.05% BSA/0.05% azide, Purified, BSA-free: 1 mg/mL in PBS without azide  Antibody research areas  Cancer  Cell/tissue expression  Epithelial cells	Antibody application notes	BSA, Higher concentration may be required for direct detection using primary antibody conjugates than for indirect detection with secondary antibody, Optimal dilution and staining procedure for a specific application should be determined by user, Recommended starting concentrations for titration are 1-2 ug/mL for most applications, or 1 ug/million cells/100 uL		
Storage Conditions   Store at 2 to 8 °C, Protect fluorescent conjugates from light, Note: store BSA-free antibodies at -10 to -35 °C	Positive control	Jurkat cells, Breast or lung carcinoma.		
conjugates from light, Note: store BSA-free antibodies at -10 to -35 °C 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/0.1% 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% azide, Purified, BSA-free: 1 mg/mL in PBS without azide  Antibody research areas Cancer  Cell/tissue expression Epithelial cells	Shipping condition	Room temperature		
date of receipt when stored as recommended  Regulatory status  For research use only (RUO)  Antibody/conjugate formulation  BSA/0.05% azide, HRP conjugates: 0.1 mg/mL in PBS/0.15% BSA/0.05% azide, Purified: 0.2 mg/mL in PBS/0.05% BSA/0.05% azide, Purified: BSA-free: 1 mg/mL in PBS without azide  Antibody research areas  Cancer  Cell/tissue expression  Epithelial cells	Storage Conditions	conjugates from light, Note: store		
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, Purified: 0.2 mg/mL in PBS/0.05% BSA, Purified: 0.8 Purified, BSA-free: 1 mg/mL in PBS without azide  Antibody research areas Cancer  Cell/tissue expression Epithelial cells	Shelf life	date of receipt when stored as		
formulation  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% azide, Purified, BSA-free: 1 mg/mL in PBS without azide  Antibody research areas  Cancer  Cell/tissue expression  Epithelial cells	Regulatory status	For research use only (RUO)		
Cell/tissue expression Epithelial cells		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% azide, Purified, BSA-free: 1 mg/mL in PBS		
· ·	Antibody research areas	Cancer		
Tumor expression Lung cancer	Cell/tissue expression	Epithelial cells		
	Tumor expression	Lung cancer		

Email: btinfo@biotium.com

Antibody # prefix BNC04	Conjugation CF®405S	Ex/Em (nm) 404/431	Laser line 405	Detection channel DAPI (microscopy), AF405	Dye Features <a href="#">CF®405S Features</a>
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
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	

Alexa Fluor, Pacific Blue, Pacific Orange, and Texas Red are trademarks or registered trademarks of Thermo Fisher Scientific; Cy is a registered trademark of Cytiva; IRDye, LI-COR, of LI-COR Bioscience.