Cytokeratin, LMW Monoclonal Mouse Antibody (KRTL/1077)



Product Description

This MAb recognizes the 56.5 kDa (CK10); 50 kDa (CK14); 50 kDa (CK15); 48 kDa (CK16); 40 kDa (CK19) keratins of the acidic (Type I or LMW) subfamily. Twenty human keratins are resolved with two-dimensional gel electrophoresis into acidic (pI 6.0) subfamilies. The acidic keratins have molecular weights (MW) of 56.5, 55, 51, 50, 50, 48, 46, 45, and 40 kDa. Many studies have shown the usefulness of keratins as markers in cancer research and tumor diagnosis. 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 1077, Anti-Cytokeratin, LMW (KRTL/1077)**

Product a Antibody nu Antibody ret (target)

Call us: 800-304-5357

Antibody number Antibody reactivity (target) Antibody target (target) Antibody type Host species Clonality Monoclonal Clone KRTL/1077 Isotype IgG1, kappa Molecular weight Se, 5, 5, 5, 5, 10, (CK10); 50 kDa (CK14); 50 kDa (CK15); 48 kDa (CK15); 40 kDa (CK19) Synonyms K18; KRT1B; K77; CK-1B; Keratin 1B; Keratin-1B; Keratin-77; Cytokeratin-1B Human gene symbol KRT77 Entrez gene ID 374454 SwissProt Unigene 334989 Immunogen Verified antibody Antibody target cellular localization Species reactivity Antibody application notes Antibody application Species reactivity Antibody application notes Antibody application notes Siconal antibody Aligher concentration may be required for direct detection using primary antibody conjugates than for indirect detection with secondary antibody, Immunofluorescence: 1-2 ug/mL, Immunohistology formalin-fixed 0.5-1 ug/mllion cells/0.1 Immunohistology formalin-fixed 15 series requires boiling tissue sections in 10 mM citrate buffer, pH 6.0, for 10-20 min unles, Flow Cytometry 0.5-1 ug/mllion cells/0.1 Michael and the series and	Product attributes				
Host species Mouse	Antibody number	#1077			
Host species Mouse		Cytokeratin, LMW			
Clone KRTL/1077 Isotype IgG1, kappa Molecular weight 56.5 kDa (CK10); 50 kDa (CK14); 50 kDa (CK15); 48 kDa (CK16); 40 kDa (CK19) Synonyms K18; KRT18; K77; CK-18; Keratin 1B; Keratin-77; Cytokeratin-1B Human gene symbol KRT77 Entrez gene ID 374454 SwissProt Q7Z794 Unigene 334989 Immunogen Recombinant human KRT77 protein IHC (FFPE) (verified) Verified antibody IHC (FFPE) (verified) Cytoskeleton Ihuman, Rat Human, Rat Human, Rat Human, Rat Antibody application notes Antibody application Immunofluorescence: 1-2 ug/mL, Predicted to show broad species reactivity, Optimal dilution for a specific application should be determined by user Positive control Skin, Squamous cell carcinoma (SCC) 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 For research use only (RUO) Antibody research areas Cancer, Cytoskeleton Canc	Antibody type	Primary			
Clone KRTL/1077 Isotype IgG1, kappa	Host species	Mouse			
IgG1, kappa	Clonality	Monoclonal			
Molecular weight S6.5 kDa (CK10); 50 kDa (CK14); 50 kDa (CK15); 48 kDa (CK16); 40 kDa (CK19)	Clone	KRTL/1077			
kba (CK15); 48 kDa (CK16); 40 kDa (CK19) Synonyms K18; KRT1B; K77; CK-1B; Keratin 1B; Keratin-77; Cytokeratin-1B Human gene symbol KRT77 Entrez gene ID 374454 SwissProt Unigene 334989 Immunogen Recombinant human KRT77 protein Verifled antibody IHC (FFPE) (verified) Cytoskeleton Antibody target cellular localization Species reactivity Antibody application notes Antibody application notes Antibody species reactivity Human, Rat Antibody application notes Antibody formalin-fixed 0.5-1 ug/mL, Immunolistology formalin-fixed 0.5-1 ug/mL, Staining of formalin-fixed 0.5-1 ug/mL, Staining of formalin-fixed 0.5-1 ug/mL, Fredicted to show broad species reactivity, Optimal dilution for a specific application should be determined by user Positive control Skin, Squamous cell carcinoma (SCC) Shipping condition Storage Conditions Storage Conditions For esearch use only (RUO) Antibody/conjugate formulation For research use only (RUO) Antibody research areas Cancer, Cytoskeleton	Isotype	IgG1, kappa			
Human gene symbol KRT77 Entrez gene ID 374454 SwissProt Q7Z794 Unigene 334989 Immunogen Recombinant human KRT77 protein Verified antibody IHC (FFPE) (verified) Cytoskeleton Incoalization Species reactivity Antibody application notes Antibody application notes Antibody application in Higher concentration may be required for direct detection using primary antibody conjugates than for indirect detection with secondary antibody, Immunofluorescence: 1-2 ug/mL, Staining of formalin-fixed tissues requires boiling tissue sections in 10 mM citrate buffer, pH 6.0, for 10-20 minutes, Flow Cytometry 0.5-1 ug/mllion cells/0.1 mL, Western blotting 0.5-1 ug/mllion cells/0.1 mL, Western blotting 0.5-1 ug/mllion cells/0.1 mL, Verdicted to show broad species reactivity, Optimal dilution for a specific application should be determined by user Positive control Skin, Squamous cell carcinoma (SCC) 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 Cancer, Cytoskeleton	Molecular weight	kDa (CK15); 48 kDa (CK16); 40 kDa			
Entrez gene ID SwissProt Q7Z794 Unigene 334989 Immunogen Recombinant human KRT77 protein Verified antibody Antibody target cellular localization Species reactivity 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, Immunofluorescence: 1-2 ug/mL, Immunohistology formalin-fixed tissues requires boiling tissue sections in 10 mM citrate buffer, pH 6.0, for 10-20 minutes, Flow Cytometry 0.5-1 ug/million cells/0.1 mL, Western blotting 0.5-1 ug/mil, Predicted to show broad species reactivity, Optimal dilution for a specific application should be determined by user Positive control Skin, Squamous cell carcinoma (SCC) 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 Antibody research areas Cancer, Cytoskeleton	Synonyms				
SwissProt Unigene 334989 Immunogen Recombinant human KRT77 protein Verified antibody Antibody target cellular localization Species reactivity Antibody application notes Antibody application Higher concentration may be required for direct detection using primary antibody conjugates than for indirect detection with secondary antibody, Immunofluorescence: 1-2 ug/mL, Immunohistology 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 minutes, Flow Cytometry 0.5-1 ug/mlL, Predicted to show broad species reactivity, Optimal dilution for a specific application should be determined by user Positive control Skin, Squamous cell carcinoma (SCC) 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 Antibody research areas Cancer, Cytoskeleton	Human gene symbol	KRT77			
Unigene Immunogen Recombinant human KRT77 protein Verified antibody Antibody target cellular localization Species reactivity Antibody application notes Higher concentration may be required for direct detection using primary antibody conjugates than for indirect detection with secondary antibody. Immunolistology 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 minutes, Flow Cytometry 0.5-1 ug/million cells/0.1 mL, Western blotting 0.5-1 ug/million cells/0.5 mg/million cells/0.1 ml, Western blotting 0.5-1 ug/million cells/0.5 mg/million cells/0.1 ml, Western blotting 0.5-1 ug/million cells/0.1 ml, western blotting 0.5-1 ug/million cells/0.5 mg/million cells/0.1 ml, western blotting 0.5-1 ug/million cells/0.1 mg/million cells/0.1 mg/million cells/0.05% BSA, Purified: 0.2 mg/million pBS/0.05% BSA, Purified: 0.2 mg/million	Entrez gene ID	374454			
Immunogen	SwissProt	Q7Z794			
Verified antibody Antibody target cellular localization Species reactivity 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, Immunolitoorescence: 1-2 ug/mL, Immunolitostlogy 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 minutes, Flow Cytometry 0.5-1 ug/million cells/0.1 mL, Western blotting 0.5-1 ug/million cells/0.5 may be calcivity, Optimal dilution for a specific application should be determined by user Positive control Skiri, Squamous cell carcinoma (SCC) Shipping conditions 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 Antibody/conjugate formulation Antibody research areas Cancer, Cytoskeleton	Unigene	334989			
Antibody target cellular localization Species reactivity Human, Rat 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, Immunolitoorescence: 1-2 ug/mL, Immunolitostlogy 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 minutes, Flow Cytometry 0.5-1 ug/million cells/0.1 mL, Western blotting 0.5-1 ug/mllion cells/0.5 may be calcivity, Opinal dilution for a specific application should be determined by user Positive control Skirn, Squamous cell carcinoma (SCC) Shipping condition Room temperature Storage Conditions Storage Conditions Storage Tonditions 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/conjugate formulation Antibody research areas Cancer, Cytoskeleton	Immunogen	Recombinant human KRT77 protein			
Antibody target cellular localization Species reactivity Antibody application direct detection using primary antibody conjugates than for indirect detection with secondary antibody, immunofillorescence: 1-2 ug/mL, Immunof		IHC (FFPE) (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, Immunofluorescence: 1-2 ug/mL, Optimal 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 minutes, Flow Cytometry 0.5-1 ug/mlL, Predicted to show broad species reactivity, Optimal dilution for a specific application should be determined by user Positive control Skin, Squamous cell carcinoma (SCC) 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 Antibody/conjugate formulation Antibody research areas Cancer, Cytoskeleton	Antibody target cellular	Cytoskeleton			
direct detection using primary antibody conjugates than for indirect detection with secondary antibody, Immunofitation with secondary and Immunofitation with secondary Immunofitation wit	Species reactivity	Human, Rat			
Shipping condition Room temperature	notes	direct detection using primary antibody conjugates than for indirect detection with secondary antibody, Immunofluorescence: 1-2 ug/mL, Immunofluorescence: 1-2 ug/mL, Immunofluorescence: 1-2 ug/mL, Staining of formalin-fixed 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 minutes, Flow Cytometry 0.5-1 ug/million cells/0.1 mL, Western blotting 0.5-1 ug/mL, Predicted to show broad species reactivity, Optimal dilution for a specific application should be determined by			
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, 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, Cytoskeleton					
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/0.05% azide, Purified; BSA-free: 1 mg/mL in PBS without azide Antibody research areas Cancer, Cytoskeleton					
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/0.05% BSA, Purified: 0.2 mg/mL in PBS/0.05% BSA, Purified: 0.2 wg/mL in PBS/0.05% BSA/0.05% azide, Purified, BSA-free: 1 mg/mL in PBS without azide Antibody research areas Cancer, Cytoskeleton	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/0.05% azide, Purified, BSA-free: 1 mg/mL in PBS without azide Antibody research areas Cancer, Cytoskeleton	Shelf life	date of receipt when stored as			
formulation BSÁ/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, Cytoskeleton	Regulatory status	For research use only (RUO)			
		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			
Cell/tissue expression Epidermal cells, Epithelial cells	Antibody research areas	Cancer, Cytoskeleton			
	Cell/tissue expression	Epidermal cells, Epithelial cells			

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 CF8405S 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
BNCB	Biotin	N/A	N/A	N/A	
BNUB	Purified	N/A	N/A	N/A	
BNUM	Purified,	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, LI-COR Bioscience.