

## Cytokeratin, Acidic Recombinant **Monoclonal Rabbit Antibody** (KRTL/1577R)



## **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 (pl <5.7) and basic (pl >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 1577, Anti-Cytokeratin, Acidic (KRTL/1577R)

## Call us : 800-304-5357 Email: techsupport@biotium.com

Antibody number#1577Antibody reactivity (target)Cytokeratin, AcidicAntibody typePrimaryHost speciesRabbitCloneKRTU/1577RIsotypeIgG, kappaMolecular weightS6.5 KDa (CK10); 50 kDa (CK14); 50 kDa (CK15); 48 kDa (CK16); 40 kDa (CK19)SynonymsK1B; KRT1B; K77, CK-1B; Keratin 1B; Keratin-77; Cytokeratin-1BHuman gene symbolKRT77Entrez gene ID374454SwissProtQ72794Unigene334989ImmunogenRecombinant human KRT77 protein fragmentAntibody target cellular opplicationsCytokeletonSpecies reactivityHumanAntibody application notesHigher concentration may be required for direct detection using primary antibody conjugates than for indirect detection with secondary antibody, romenohistology (formalin) 1-2 ug/mL, tramy untibody conjugates than for indirect detection with secondary antibody.Storage ConditionsStorage ConditionsStorage ConditionsStora 2-2 to 3 *C, Protect fluorescent conjugates from light, Note: store BSA-free antibodies at -10 to -35 *CShiping conditionRoum temperatureStorage ConditionsStore at 2 to 3 *C, Protect fluorescent conjugates from light, Note: store BSA-free antibodies at -10 to -35 *CShiping conditionConjugates: 0.1 mg/mL, in PSN:0.05%, BSA, Durified, Ca ug/mL, in PSN:0.05%, BSA, Durified, DSA, Purified, DSA, Purified, DSA, Purified, DSA, Purified, DSA, Purified, DSA, Purified, DSA, Purified	Product attributes				
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Immunogen   Recombinant human KRT77 protein fragment     Antibody target cellular localization   Cytoskeleton     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. (Immunohistology (formalin) 1-2 ug/mL, Immunohilourescence 1-2 ug/mL, Western blotting 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/mlLing cooling at RT for 20 min, Flow Cytometry 0.5-1 ug/mlLing cooling at RT for 20 min, Flow Cytometry 0.5-1 ug/mlLing cooling at RT for 20 min, Flow Cytometry 0.5-1 ug/mlLing cooling at RT for 20 min, Flow Cytometry 0.5-1 ug/mlLing cooling at RT for 20 min, Flow Cytometry 0.5-1 ug/mlLing cooling at RT for 20 min, Flow Cytometry 0.5-1 ug/mlLing cooling at RT for 20 min, Flow Cytometry 0.5-1 ug/mlLing cooling at RT for 20 min, Flow Cytometry 0.5-1 ug/mlLing 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 <th>SwissProt</th> <th colspan="2">Q7Z794</th>	SwissProt	Q7Z794			
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applications Human   Antibody application notes Higher concentration may be required for direct detection using primary antibody conjugates than for indirect detection with secondary antibody conjugates than for indirect detection with secondary antibody. Immunohistology (formalin) 1-2 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 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 roonjugates: 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: 0.2 mg/mL in PBS/0.05% SAD, Purified: 0.2 mg/mL in PBS/0.05% BSA, Purified: BSA-free: 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: 0.2 mg/mL in PBS/0.05% SAD, Purified: 0.2 mg/mL in PBS/0.05% BSA, Purifie		Cytoskeleton			
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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/0.1% 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, Cytoskeleton     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.	Species reactivity	Human			
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/0.05% azide, Purified; BSA-free: 1 mg/mL in PBS without azide     Antibody research areas   Cancer, Cytoskeleton     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.		Higher concentration may be required for direct detection using primary antibody conjugates than for indirect detection with secondary antibody, Immunohistology (formalin) 1-2 ug/mL, Immunofluorescence 1-2 ug/mL Western blotting 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			
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/0.05% BSA/0.05% BSA/0.05% BSA/0.05% BSA/0.05% BSA/0.05% BSA/0.05% BSA/0.05% 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, Cytoskeleton     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 application notes	Higher concentration may be required for direct detection using primary antibody conjugates than for indirect detection with secondary antibody, Immunohistology (formalin) 1-2 ug/mL, Immunofluorescence 1-2 ug/mL Western blotting 0.5-1 ug/mL, Staining of formalin-fixed lissues requires boling 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 diution for a specific application should be determined by user			
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, Purified: 0.2 mg/mL in PBS/0.05% azide, Purified: 0.5% azide, Purified: 0.2 mg/mL in PBS without azide     Antibody research areas   Cancer, Cytoskeleton     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 application notes	Higher concentration may be required for direct detection using primary antibody conjugates than for indirect detection with secondary antibody, Immunohistology (formalin) 1-2 ug/mL, Immunofluorescence 1-2 ug/mL Western blotting 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 Skin, Squamous cell carcinoma (SCC)			
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; 0.2 mg/mL in PBS without azide     Antibody research areas   Cancer, Cytoskeleton     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 application notes Positive control Shipping condition	Higher concentration may be required for direct detection using primary antibody conjugates than for indirect detection with secondary antibody, Immunohistology (formalin) 1-2 ug/mL, Immunofluorescence 1-2 ug/mL, Usetern blotting 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 Skin, Squamous cell carcinoma (SCC) Room temperature Store at 2 to 8 °C, Protect fluorescent conjugates from light,			
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% azide, Purified, BSA-free: 1 mg/mL in PBS without azide     Antibody research areas   Cancer, Cytoskeleton     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 application notes Positive control Shipping condition Storage Conditions	Higher concentration may be required for direct detection using primary antibody conjugates than for indirect detection with secondary antibody, Immunohistology (formalin) 1-2 ug/mL, Immunofluverscence 1-2 ug/mL Western blotting 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 Skin, Squamous cell carcinoma (SCC) Room temperature 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			
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 application notes Positive control Shipping condition Storage Conditions Shelf life	Higher concentration may be required for direct detection using primary antibody conjugates than for indirect detection with secondary antibody, Immunohistology (formalin) 1-2 ug/mL, Immunofluverscence 1-2 ug/mL Western blotting 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 Skin, Squamous cell carcinoma (SCC) Room temperature 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			
bovine serum (Bos taurus), or recombinant BSA produced in Chinese hamster ovary cells. Inquire for the specific lot.	Antibody application notes Positive control Shipping condition Storage Conditions Shelf life Regulatory status Antibody/conjugate	Higher concentration may be required for direct detection using primary antibody conjugates than for indirect detection with secondary antibody, Immunohistology (formalin) 1-2 ug/mL, Immunofluverscence 1-2 ug/mL, Usetern blotting 0.5-1 ug/mL, Staining of formalin-fixed tissues requires boiling tissue sections in 10 mM citrate buffer, pH 8.0, for 10-20 min followed by cooling at RT for 20 min, Flow Cytometry 0.5-1 ug/mL, Optimal dilution for a specific application should be determined by user Skin, Squamous cell carcinoma (SCC) Room temperature 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 For research use only (RUO) Conjugates: 0.1 mg/mL in PBS/0.1% BSA/0.05% azide, HRP conjugates: 0.1 mg/mL in PBS/0.1% BSA/0.5% azide, HRP conjugates: 0.1 mg/mL in PBS/0.1% BSA/0.5% azide, HRP conjugates: 0.1 mg/mL in PBS/0.1% BSA/0.5% azide, HRP conjugates: 0.1 mg/mL in PBS/0.1% USA, Purified: 0.2 mg/mL in PBS/0.05% BSA/0.5% azide, Purified; 0.2 mg/mL in PBS/0.05% BSA/0.5% azide, Purified; 0.2 mg/mL in PBS/0.5% BSA/0.5% azide, Purified; 0.2 mg/mL in PBS/0.5% BSA/0.5% BSA/0.			
Cell/tissue expression Epidermal cells, Epithelial cells	Antibody application notes Positive control Shipping condition Storage Conditions Shelf life Regulatory status Antibody/conjugate formulation	Higher concentration may be required for direct detection using primary antibody conjugates than for indirect detection with secondary antibody, Immunohistology (formalin) 1-2 ug/mL, Immunofluverscence 1-2 ug/mL Western blotting 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). Optimal dilution for a specific application should be determined by user Skin, Squamous cell carcinoma (SCC) Room temperature 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 For research use only (RUO) 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 application notes Positive control Shipping condition Storage Conditions Shelf life Regulatory status Antibody/conjugate formulation Antibody research areas	Higher concentration may be required for direct detection using primary antibody conjugates than for indirect detection with secondary antibody, Immunohistology (formalin) 1-2 ug/mL, Immunofluorescence 1-2 ug/mL, Usetern blotting 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 Skin, Squamous cell carcinoma (SCC) Room temperature 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 For research use only (RUO) Conjugates: 0.1 mg/mL in PBS/0.1% BSA/0.05% azide, HRP conjugates: 0.1 mg/mL in PBS/0.1% BSA/0.05% azide, HRP conjugates: 0.1 mg/mL in PBS/0.1% BSA/0.05% azide, HRP conjugates: 0.1 mg/mL in PBS/0.1% BSA/0.05% azide, Jrom PBS without azide Cancer, Cytoskeleton Product may contain either bovine serum albumin (BSA) from bovine serum (Bos taurus), or recombinant BSA produced in			

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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