## **Cytokeratin 10 Monoclonal Mouse Antibody** (KRT10/1275)

## **Product Description**

This MAb recognizes a protein of 56.5 kDa, identified as cytokeratin 10 (CK10). CK10 is expressed in all suprabasal layers of the epidermis. In the epidermis, expression of CK10 strictly parallels the extent of differentiation; it is absent in the basal layer, appears in the first suprabasal layers and increases in concentration towards the granular layer. However, CK10 is rarely detected in early stages of vulvar squamous carcinomas (tumors less than 2 cm, clinical stage I) regardless of the tumor grade. In larger and more advanced tumors (greater than 2 cm, clinical stages II and III), CK10 is detected very frequently. Expression of CK10 is related to maturation of malignant keratinocytes, being preferentially detected in more-differentiated parts. 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 1275, Anti-Cytokeratin 10 (KRT10/1275)

Call us: 800-304-5357

Antibody number  Antibody reactivity (target) Antibody type  Host species  Cionality  Monocional  Cione  KRT10/1275  Isotype  IgG1, kappa  Molecular weight  SelE, BIE, EHK, Keratin Type I Cytoskeletal 10, KRT10  Human gene symbol  KRT10  Entrez gene ID  S858  SwissProt  Unigene  99936  Immunogen  Antibody target cellular Cytoskeleton  Immunogen  Antibody applications Species reactivity  Antibody application notes  Antibody application  In J. Immunofluorescene 0.5-1 ug/ml lino velis in 0.1mL, Immunofluorescene 0.5-1 ug/mL Immunofluorescene 0	Product attributes				
Host species   Mouse	Antibody number	#1275			
Host species Mouse Clonality Monoclonal Clone KRT10/1275 Isotype IgG1, kappa Molecular weight 56.5 kDa Synonyms BCIE, BIE, EHK, Keratin Type I Cytoskeletal 10, KRT10 Human gene symbol KRT10 Entrez gene ID 3858 SwissProt P13645 Unigene 99936 Immunogen Recombinant human KRT10 protein Antibody target cellular Cytoskeleton IHC (FFPE) (verified) 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, Flow cytometry: 0.5-1 ug/mllilion cells in 0.1mL, Immunofluorescence 0.5-1 ug/mL Immunofluorescence 0.5-5 ug/mL Immunofluorescence 0.5-1 ug/mL Immunofluorescence 0.5-		Cytokeratin 10			
Clone IKRT10/1275 Isotype IgG1, kappa Molecular weight 56.5 kDa Synonyms BCIE, BIE, EHK, Keratin Type I Cytoskeletal 10, KRT10 Human gene symbol KRT10 Entrez gene ID 3858 SwissProt P13645 Unigene 99936 Immunogen Recombinant human KRT10 protein Antibody target cellular Cytoskeleton IHC (FFPE) (verified) Applications Species reactivity Antibody application notes  Antibody application Notes  Antibody application Notes  Pigher concentration may be required for direct detection using primary antibody conjugates than for indirect detection with secondary antibody, Flow cytometry: 0.5-1 ug/million cells in 0.1mL, Immunofluorescence 0.5-1 ug/mL Immunohistology (formalin 7.0-1 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 min, Optimal dilution for a specific application should be determined by user  Positive control  A431, HeLa, MCF7 cells. Esophagus or tonsil.  Shipping condition  Storage Conditions  Storage Conditions  Storage Conditions  Storage Conditions  For research use only (RUO)  Antibody/conjugate formulation  Antibody/conjugate formulation  For research use only (RUO)  Antibody research areas  Cell/tissue expression  Epidermal cells	Antibody type	Primary			
Clone KRT10/1275  Isotype IgG1, kappa  Molecular weight 56.5 KDa  Synonyms BCIE, BIE, EHK, Keratin Type I Cytoskeletal 10, KRT10  Human gene symbol KRT10  Entrez gene ID 3858  SwissProt P13645  Unigene 99936  Immunogen Recombinant human KRT10 protein Cytoskeleton  Antibody target cellular Cytoskeleton  Antibody application policition of direct detection using primary antibody conjugates than for indirect detection with secondary antibody, Flow cytometry: 0.5-1 ug/million cells in 0.1mL, Immunofluorescence 0.5-1 ug/mL Immunofluorescence 0.5-1 ug/mL Immunofluorescence 0.5-1 ug/mL limburgh primary antibody conjugates than for indirect detection with secondary antibody, Flow cytometry: 0.5-1 ug/mllion cells in 0.1mL, Immunofluorescence 0.5-1 ug/mL limburgh primary antibody for 10-20 min followed by cooling at RT for 20 min, Optimal dilution for a specific application should be determined by user  Positive control A431, HeLa, MCF7 cells. Esophagus or tonsil.  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 Fasco SaA-free and SaA-free in mg/mL in PBS/0.05% BSA/0.05% azide, HRP conjugates: 0.1 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% azide, Purif	Host species	Mouse			
Isotype	Clonality	Monoclonal			
Molecular weight  Synonyms  BCIE, BIE, EHK, Keratin Type I Cytoskeletal 10, KRT10  Human gene symbol  Entrez gene ID  3858  SwissProt  P13645  Unigene  99936  Immunogen  Antibody target cellular Cytoskeleton  Lection 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, Flow cytometry: 0.5-1 ug/million cells in 0.1mL, Immunofluorescence 0.5-1 ug/mL Immunoflu	Clone	KRT10/1275			
Synonyms  BCIE, BIE, EHK, Keratin Type I Cytoskeletal 10, KRT10  Entrez gene ID  3858  SwissProt  P13645  Unigene  99936  Immunogen  Antibody target cellular Cytoskeleton  Lectified antibody applications 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, Flow cytometry: 0.5-1 ug/million cells in 0.1mL, Immunofluorescence 0.5-1 ug/mL Immunofluorescence 0.5-1 ug/mL limburofluorescence 0.5-1 ug/mL limbur	Isotype	IgG1, kappa			
Cytoskeletal 10, KRT10  Entrez gene ID  3858  SwissProt  P13645  Unigene  99936  Immunogen  Antibody target cellular  Cytoskeleton  Perfifed antibody applications Species reactivity  Antibody application notes  Antibody application notes  Pigene concentration may be required for direct detection using primary antibody conjugates than for indirect detection with secondary antibody, Flow cytometry: 0.5-1 ug/million cells in 0.1mL, Immunofluorescence 0.5-1 ug/mL Immunofluorescence 0.5-1 ug/mL limmunofluorescence 0.5-1 ug/mL limsunofluorescence 0.5-1 ug/mL limsunofluoresc	Molecular weight	56.5 kDa			
Entrez gene ID  SwissProt  P13645  Unigene  99936  Immunogen  Antibody target cellular  Verified antibody 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, Flow cytometry: 0.5–1 ug/million cells in 0.1mL, 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, Optimal dilution for a specific application should be determined by user  Positive control  A431, HeLa, MCF7 cells. Esophagus or tonsil.  Shipping condition  Storage 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 research areas  Cell/tissue expression  Epidermal cells	Synonyms	BCIE, BIE, EHK, Keratin Type I Cytoskeletal 10, KRT10			
SwissProt Unigene 99936 Immunogen Recombinant human KRT10 protein Antibody target cellular Cytoskeleton IHC (FFPE) (verified) Species reactivity Antibody application Species reactivity Higher concentration may be required for direct detection using primary antibody conjugates than for indirect detection with secondary antibody, Flow cytometry: 0.5-1 ug/mll inmunofibilition cells in 0.1mL, Immunofiliuorescence 0.5-1 ug/mL immunofibilition cells in 0.1mL, Immunofiliuorescence 0.5-1 ug/mL immunofibilition for a specific application followed by cooling at RT for 20 min, Optimal dilution for a specific application should be determined by user  Positive control A431, HeLa, MCF7 cells. Esophagus or tonsil.  Shipping condition Storage Conditions Storage Conditions Cstore at 2 to 8 °C. Protect fluorescent conjugates from light, Notic: 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 the provided in the passion of	Human gene symbol	KRT10			
Unigene 99936  Immunogen Recombinant human KRT10 protein  Antibody target cellular Cytoskeleton  Ureffled antibody 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, Flow cytometry: 0.5-1 ug/mllion cells in 0.1ml., Immunofluorescence 0.5-1 ug/ml. Intended 0.5-1 ug/ml. Immunofluorescence 0.5	Entrez gene ID	3858			
Immunogen	SwissProt	P13645			
Antibody target cellular  Verified antibody 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, Flow cytometry: 0.5–1 ug/million cells in 0.1mL, Immunofluorescence 0.5-1 ug/mL, Immunofluorescence 0.5-1 ug/mL in Pas (0.5 To 10-20 min followed by cooling at RT for 20 min, Optimal dilution for a specific application should be determined by user  Positive control  A431, HeLa, MCF7 cells. Esophagus or tonsil.  Shipping condition  Storage Conditions  Storage Conditions  Storage Conditions  Storage Conditions  Storage Conditions  Storage Conditions  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/conjugates formulation  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/0.05% BSA/0.05% azide, Purified, BSA-free: 1 mg/mL in PBS without azide  Antibody research areas  Cell/tissue expression  Epidermal cells	Unigene	99936			
Positive control   A431, HeLa, MCF7 cells. Esophagus or tonsil.	Immunogen	Recombinant human KRT10 protein			
Verified antibody 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, Flow cytometry: 0.5-1 ug/million cells in 0.1mL, Immunofiluorescence 0.5-1 ug/mL Immunofiluorescence 0.5-1 ug/mL Immunofiluorescence 0.5-1 ug/mL Immunofiluorescence 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, Optimal dilution for a specific application should be determined by user  Positive control  A431, HeLa, MCF7 cells. Esophagus or tonsil.  Shipping condition  Storage 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  Pasi/0.05% azide, HRP conjugates: 0.1 mg/mL in PBS/0.1%, 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% BSA/0.05% azide, Purified: 0.2 mg/mL in PBS/0.05% BSA/0.05% azide, Purified: 0.2 mg/mL i	Antibody target cellular	Cytoskeleton			
Antibody application notes  Higher concentration may be required for direct detection using primary antibody conjugates than for indirect detection with secondary antibody. Flow cytometry: 0.5-1 ug/million cells in 0.1mL, Immunofluorescence 0.5-1 ug/mil. Immunofluorescence 1 of 0.5-1 ug/mil. Immunofluorescent 1 of	Verified antibody	IHC (FFPE) (verified)			
direct detection using primary antibody conjugates than for indirect detection with secondary antibody, Flow cytometry: 0.5-1 ug/mllion cells in 0.1ml., Immunofluorescence 0.5-1 ug/ml. Staining of formalin-fixed tissues requires boiling tissue sections in 10 mlm citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 min, Optimal dilution for a specific application should be determined by user  Positive control  A431, HeLa, MCF7 cells. Esophagus or tonsil.  Shipping condition  Storage Conditions  Conjugates to 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% azide, Purified, BSA-free: 1 mg/mL in PBS without azide  Antibody research areas  Cell/tissue expression  Epidermal cells	Species reactivity	Human			
tonsil.  Shipping condition  Room temperature  Storage Conditions  Stora 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/0.05% azide, Purified, BSA/purified: 0.2 mg/mL in PBS/0.05% BSA/0.05% azide, Purified, BSA-free: 1 mg/mL in PBS/0.05% without azide  Antibody research areas  Cell/tissue expression  Epidermal cells		direct detection using primary antibody conjugates than for indirect detection with secondary antibody, Flow cytometry. 0.5-1 ug/mllion cells in 0.1 mL, 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, Optimal dilution for a specific application			
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 SSA/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: 0.2 mg/mL in PBS/0.05% BSA/0.05% azide, Purified: 0.2 mg/mL in PBS/0.05% BSA, Purified: 0.2 mg/mL in PBS/0.05% BS	Positive control				
conjugates from light, Note: store BSA-free antibodies at -10 to -35 ° C  Shelf life	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/0.1% 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 without azide  Antibody research areas Cancer, Cytoskeleton  Cell/tissue expression Epidermal 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/0.05% BSA/	Shelf life	date of receipt when stored as			
formulation    SSÁ/Ö.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	Regulatory status	For research use only (RUO)			
Cell/tissue expression Epidermal 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, Cytoskeleton			
Tumor expression Squamous cell carcinoma	Cell/tissue expression	Epidermal cells			
	Tumor expression	Squamous cell carcinoma			

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 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
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, LI-COR Bioscience.