

Cytokeratin 10 Recombinant monoclonal antibody

Catalog Number: 86324-1-RR

Basic Information

Catalog Number: 86324-1-RR	GenBank Accession Number: BC034697	Purification Method: Protein A purification
Concentration: 1000 µg/ml	GeneID (NCBI): 3858	CloneNo.: 250893H2
Source: Rabbit	UNIPROT ID: P13645	Recommended Dilutions: WB: 1:5000-1:50000 IHC: 1:500-1:2000 IF-P: 1:50-1:500
Isotype: IgG	Full Name: keratin 10	
	Calculated MW: 584 aa, 59 kDa	
	Observed MW: 59 kDa	

Applications

Tested Applications: WB, IHC, IF-P, ELISA	Positive Controls:
Species Specificity: human, mouse, rat	WB : mouse skin tissue, rat skin tissue
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	IHC : human skin cancer tissue,
	IF-P : mouse skin tissue,

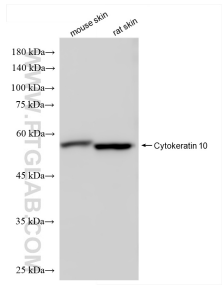
Background Information

Cytokeratin 10 (CK-10, K10, KRT10) is a type I (acidic) cytokeratin and part of the intermediate filament protein superfamily. It is expressed in keratinized stratified epithelium, suprabasal cell layers (including the stratum corneum), and differentiated areas of highly differentiated squamous cell carcinomas. CK-10 plays a role in maintaining the structural integrity of epithelial cells and is involved in differentiation, tissue specialization, and epidermal barrier establishment. Mutations in the KRT10 gene are associated with epidermolytic hyperkeratosis, and its expression is linked to the terminal differentiation of epidermal cells. CK-10 is also used as a marker for tissue differentiation and characterization of malignant tumors in surgical pathology.

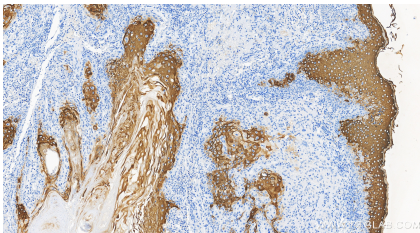
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

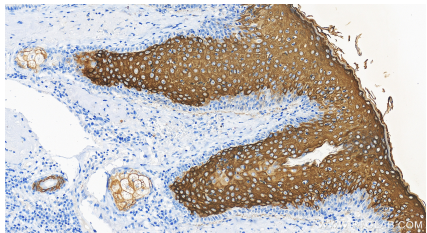
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 86324-1-RR (KRT10 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



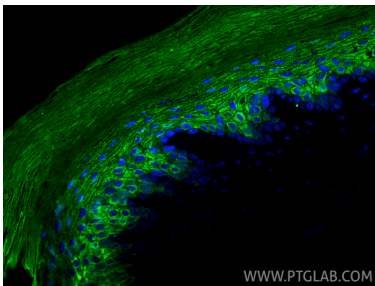
Immunohistochemical analysis of paraffin-embedded human skin cancer tissue slide using 86324-1-RR (Cytokeratin 10 antibody) at dilution of 1:1000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse skin tissue using Cytokeratin 10 antibody (86324-1-RR, Clone: 250893H2) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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