



Cytokeratin 10 Polyclonal Antibody

Catalog No	YP-Ab-03108
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB;IHC;IF;ELISA
Gene Name	KRT10
Immunogen	The antiserum was produced against synthesized peptide derived from human Keratin 10. AA range:136-185
Specificity	Cytokeratin 10 Polyclonal Antibody detects endogenous levels of Cytokeratin 10 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/20000. Not yet tested in other applications.
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	KRT10;CK 10;CK10;CK-10;Cytokeratin-10;Cytokeratin 10;Keratin type I cytoskeletal 10;KPP;Keratin;type I cytoskeletal 10;Keratin-10;K10
Observed Band	59kD
Calculated Molecular Weight	59kD
Cell Pathway	Secreted, extracellular space . Cell surface . Localized on the surface of desquamated nasal epithelial cells (PubMed:12427098). Localized on the surface of lung cell lines (PubMed:19627498). .
Tissue Specificity	Seen in all suprabasal cell layers including stratum corneum. Expressed on the surface of lung cell lines (PubMed:19627498).
Function	disease:Defects in KRT10 are a cause of bullous congenital ichthyosiform erythroderma (BCIE) [MIM:113800]; also known as epidermolytic hyperkeratosis (EHK) or bullous erythroderma ichthyosiformis congenita of Brocq. BCIE is an autosomal dominant skin disorder characterized by widespread blistering and an ichthyotic erythroderma at birth that persist into adulthood. Histologically there is a diffuse epidermolytic degeneration in the lower spinous layer of the epidermis.



Within a few weeks from birth, erythroderma and blister formation diminish and hyperkeratoses develop.,disease:Defects in KRT10 are a cause of epidermal nevus epidermolytic hyperkeratotic type [MIM:600648]. Epidermal nevi affect about 1 in 1,000 people. They appear at or shortly after birth as localized lines of epidermal thickening. The extent of skin involvement varies widely., disease:Defects in KRT10 are a cause of icht

Background

This gene encodes a member of the type I (acidic) cytokeratin family, which belongs to the superfamily of intermediate filament (IF) proteins. Keratins are heteropolymeric structural proteins which form the intermediate filament. These filaments, along with actin microfilaments and microtubules, compose the cytoskeleton of epithelial cells. Mutations in this gene are associated with epidermolytic hyperkeratosis. This gene is located within a cluster of keratin family members on chromosome 17q21. [provided by RefSeq, Jul 2008],

matters needing attention

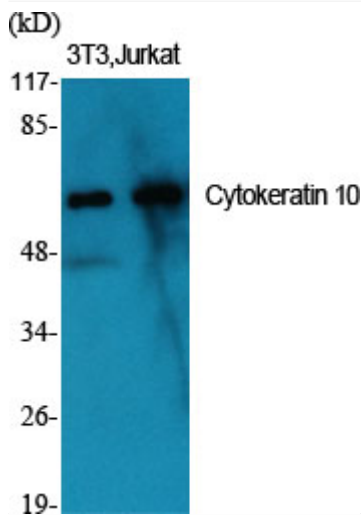
Avoid repeated freezing and thawing!

Usage suggestions

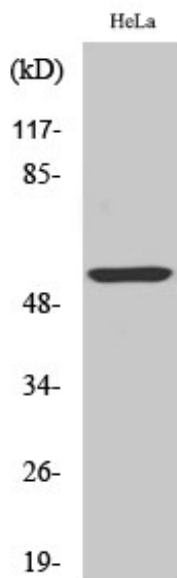
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



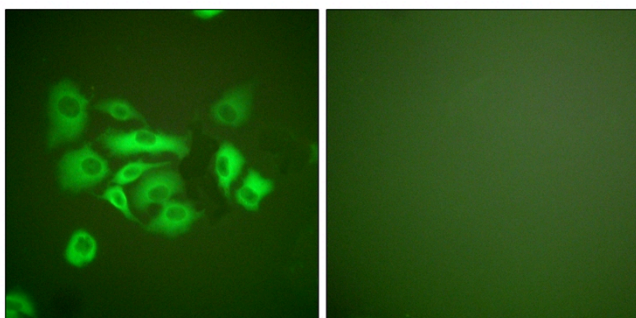
Products Images



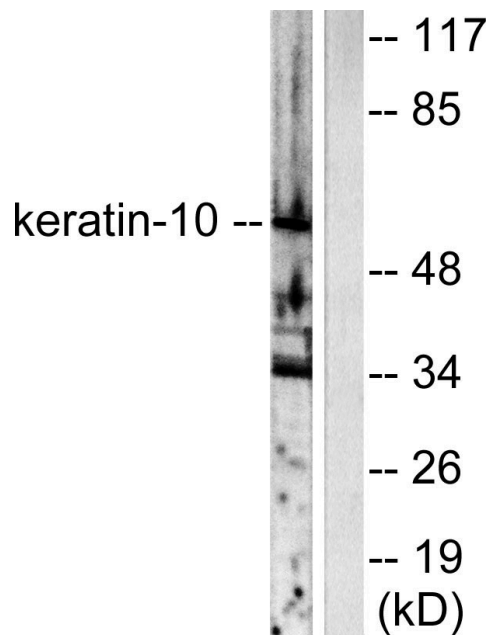
Western Blot analysis of various cells using Cytokeratin 10 Polyclonal Antibody



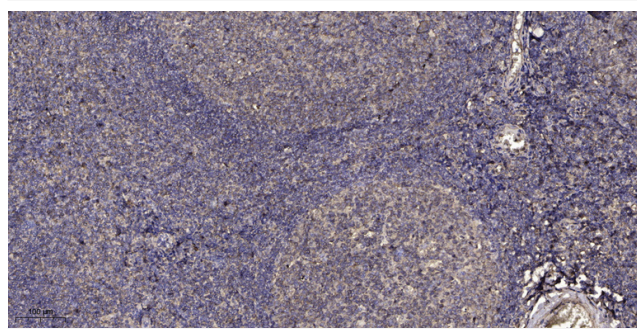
Western Blot analysis of HeLa cells using Cytokeratin 10 Polyclonal Antibody



Immunofluorescence analysis of A549 cells, using Keratin 10 Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from HeLa cells, using Keratin 10 Antibody. The lane on the right is blocked with the synthesized peptide.



Immunohistochemical analysis of paraffin-embedded human tonsil. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA, pH9.0 was used for antigen retrieval. 3, Secondary antibody was diluted at 1:200(room temperature, 30min).