



Cytokeratin 6 Rabbit mAb

Catalog No	YP-rAb-18518
Isotype	IgG
Reactivity	Human,Mouse,Rat
Applications	WB,IHC,IF,ELISA
Gene Name	KRT6A K6A KRT6D
Protein Name	CK 6A;CK 6B;CK 6C;CK 6D;CK 6E;CK-6B;CK-6C;CK-6E;Cytokeratin 6a;Cytokeratin 6B;Cytokeratin 6C;Cytokeratin 6D;Cytokeratin 6E;Cytokeratin-6B;Cytokeratin-6C;Cytokeratin-6E;K2C6C_HUMAN;K6a keratin;K6b keratin;K6C;K6c keratin;K6d keratin;K6e keratin;Keratin;Keratin K6h;Keratin type II cytoskeletal 6A;Keratin type II cytoskeletal 6B;Keratin type II cytoskeletal 6C;Keratin type II cytoskeletal 6D;Keratin type II cytoskeletal 6E;Keratin-6C;KRT6A;KRT6B;KRT6C;KRT6D;KRT6E;type II cytoskeletal 6C;Type-II keratin Kb12
Purification Process	Protein A
Specificity	Endogenous
Formulation	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
Source	Monoclonal, Rabbit,IgG
Dilution	IHC 1:200-1:1000; WB 1:2000-1:10000; IF 1:200-1:1000; ELISA 1:5000-1:20000; Note: For IHC, we suggest antigen retrieval with TE buffer pH 9.0
Concentration	0.5 mg/ml
Purity	≥90%
Storage Stability	-15° C to -25° C/1 year(Do not lower than -25° C)
Synonyms	CK 6A ; CK 6B ; CK 6C ; CK 6D ; CK 6E ; CK-6B ; CK-6C ; CK-6E ; Cytokeratin 6a ; Cytokeratin 6B ; Cytokeratin 6C ; Cytokeratin 6D ; Cytokeratin 6E ; Cytokeratin-6B ; Cytokeratin-6C ; Cytokeratin-6E ; K2C6C_HUMAN ; K6a keratin ; K6b keratin ; K6C ; K6c keratin ; K6d keratin ; K6e keratin ; Keratin ; Keratin K6h ; Keratin type II cytoskeletal 6A ; Keratin type II cytoskeletal 6B ; Keratin type II cytoskeletal 6C ; Keratin type II cytoskeletal 6D ; Keratin type II cytoskeletal 6E ; Keratin-6C ; KRT6A ; KRT6B ; KRT6C ; KRT6D ; KRT6E ; type II cytoskeletal 6C ; Type-II keratin Kb12
Observed Band	60kD
Calculated Molecular Weight	60kD
Cell Pathway	Cytoplasmic, Membranous





Tissue Specificity

Tonsil/ Prostate

Function

allergen: Causes an allergic reaction in human. Binds to IgE from atopic dermatitis (AD) patients. Identified as an IgE autoantigen in atopic dermatitis (AD) patients with severe skin manifestations. **Disease:** Defects in KRT6A are a cause of pachyonychia congenita type 1 (PC1) [MIM:167200]; also known as Jadassohn-Lewandowsky syndrome. PC1 is an autosomal dominant ectodermal dysplasia characterized by hypertrophic nail dystrophy resulting in onychogryposis (thickening and increase in curvature of the nail), palmoplantar keratoderma, follicular hyperkeratosis, and oral leukokeratosis. Hyperhidrosis of the hands and feet is usually present. **miscellaneous:** There are at least six isoforms of human type II keratin-6 (K6), K6A being the most abundant representing about 77% of all forms found in epithelia. **miscellaneous:** There are two types of cytoskeletal and microfibrillar keratin, I (acidic) and II (neutral to basic) (40-55 and 56-70 kDa, respectively). **similarity:** Belongs to the intermediate filament family. **subunit:** Heterodimer of a type I and a type II keratin. KRT6 isomers associate with KRT16 and/or KRT17. Interacts with TCHP. **tissue specificity:** Constitutively expressed in distinct types of epithelia such as those in oral mucosa, esophagus, papillae of tongue and hair follicle outer root sheath.

Background

The protein encoded by this gene is a member of the keratin gene family. The type II cytokeratins consist of basic or neutral proteins which are arranged in pairs of heterotypic keratin chains coexpressed during differentiation of simple and stratified epithelial tissues. As many as six of this type II cytokeratin (KRT6) have been identified; the multiplicity of the genes is attributed to successive gene duplication events. The genes are expressed with family members KRT16 and/or KRT17 in the filiform papillae of the tongue, the stratified epithelial lining of oral mucosa and esophagus, the outer root sheath of hair follicles, and the glandular epithelia. This KRT6 gene in particular encodes the most abundant isoform. Mutations in these genes have been associated with pachyonychia congenita. In addition, peptides from the C-terminal region of the protein have antimicrobial activity against bacterial pathogen.

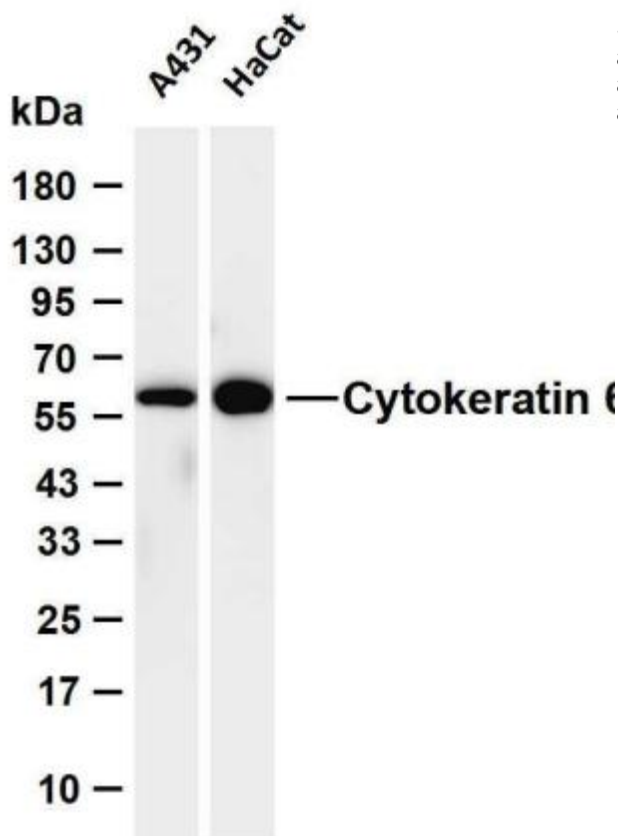
matters needing attention

Avoid repeated freezing and thawing!

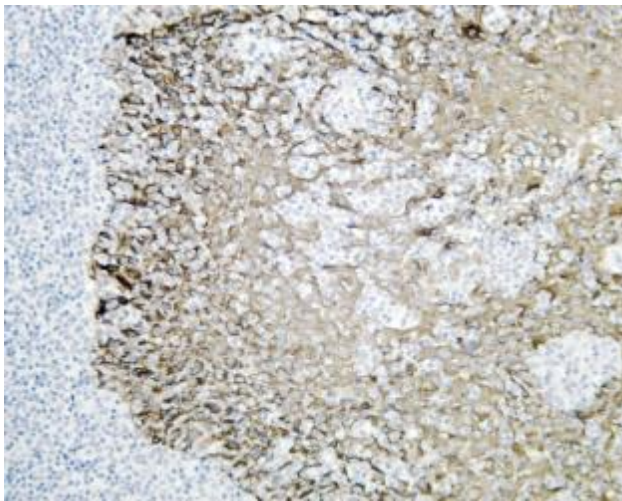
Usage suggestions

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

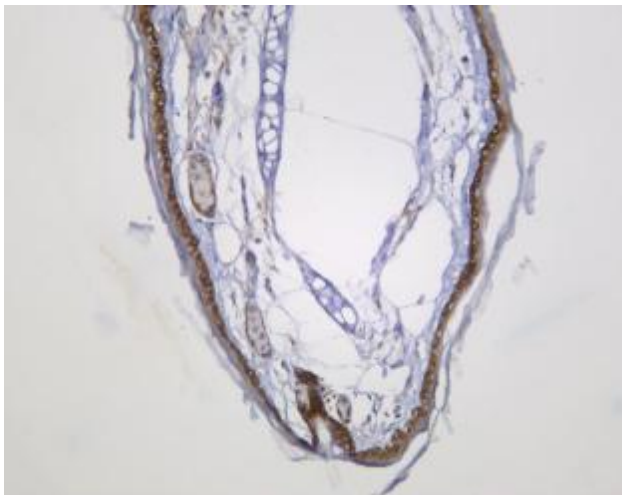




Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-Cytokeratin 6 antibody. The HRP-conjugated Goat anti-Rabbit IgG (H + L) antibody was used to detect the antibody. Lane 1: A431 Lane 2: HaCat Predicted band size: 60kDa Observed band size: 60kDa



Human tonsil was stained with anti-Cytokeratin 6 Rabbit antibody



Mouse skin was stained with anti-Cytokeratin 6 Rabbit antibody





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