



Cytokeratin 1 Rabbit mAb

Catalog No	YP-rAb-17010
Isotype	IgG
Reactivity	Human,Mouse,Rat
Applications	WB,IHC,IF,ELISA
Gene Name	KRT1 KRTA
Protein Name	Keratin, type II cytoskeletal 1 (67 kDa cytokeratin) (Cytokeratin-1) (CK-1) (Hair alpha protein) (Keratin-1) (K1) (Type-II keratin Kb1)
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	67 kDa cytokeRatin ; CK-1 ; CK1 ; CytokeRatin-1 ; CytokeRatin1 ; EHK ; EHK1 ; Epidermolytic hyperkeRatosis 1 ; EPPK ; Hair alpha protein ; K1 ; K2C1_HUMAN ; KeRatin ; KeRatin type II cytoskeletal 1 ; KeRatin-1 ; KeRatin1 ; KRT 1 ; Krt1 ; KRT1A ; NEPPK ; type II cytoskeletal 1 ; Type II keRatin Kb1 ; Type-II keRatin Kb1
Observed Band	66kD
Calculated Molecular Weight	66kD
Cell Pathway	Cytoplasmic, Membranous
Tissue Specificity	The source of this protein is neonatal foreskin. The 67-kDa type II keratins are expressed in terminally differentiating epidermis.
Function	Disease:Defects in KRT1 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 KRT1 are a cause of ichthyosis





annular epidermolytic (AEI) [MIM:607602]; also known as cyclic ichthyosis with epidermolytic hyperkeratosis. AEI is a skin disorder resembling bullous congenital ichthyosiform erythroderma. Affected individuals present with bullous ichthyosis in early childhood and hyperkeratotic lichenified plaques in the flexural areas and extensor surfaces at later ages. The feature that distinguishes AEI from BCIE is dramatic episodes of flares of annular polycyclic plaques with scale, which coalesce to involve most of the body surface and can persist for several weeks or even months. Disease: Defects in KRT1 are a cause of palmoplantar keratoderma non-epidermolytic (NEPPK) [MIM:600962]. NEPPK is a dermatological disorder characterized by focal palmoplantar keratoderma with oral, genital, and follicular lesions. Disease: Defects in KRT1 are the cause of ichthyosis hystrix Curth-Macklin type (IHCM) [MIM:146590]. IHCM is a genodermatosis with severe verrucous hyperkeratosis. Affected individuals manifest congenital verrucous black scale on the scalp, neck, and limbs with truncal erythema, palmoplantar keratoderma and keratoses on the lips, ears, nipples and buttocks. Disease: Defects in KRT1 are the cause of palmoplantar keratoderma striate type 3 (SPPK3) [MIM:607654]; also known as keratosis palmoplantaris striata III. SPPK3 is a dermatological disorder affecting palm and sole skin where stratum corneum and epidermal layers are thickened. There is no involvement of non-palmoplantar skin, and both hair and nails are normal. Function: May regulate the activity of kinases such as PKC and SRC via binding to integrin beta-1 (ITB1) and the receptor of activated protein kinase C (RACK1/GNB2L1). miscellaneous: There are two types of cytoskeletal and microfilament keratin: I (acidic; 40-55 kDa) and II (neutral to basic; 56-70 kDa). online information: Keratin-1 entry, polymorphism: There are two size variants of KRT1, termed allele 1A and allele 1B with allelic frequencies of 0.61 and 0.39. Allele 1B lacks 7 residues compared to allele 1A. PTM: Undergoes deimination of some arginine residues (citrullination). similarity: Belongs to the intermediate filament family. subcellular location: Located on plasma membrane of neuroblastoma NMB7 cells. subunit: Heterotetramer of two type I and two type II keratins. Keratin-1 is generally associated with keratin-10. Interacts with ITGB1 in the presence of GNB2L1 and SRC, and with GNB2L1. tissue specificity: The source of this protein is neonatal foreskin. The 67-kDa type II keratins are expressed in terminally differentiating epidermis.

Background

keratin 1(KRT1) Homo sapiens 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. This type II cytokeratin is specifically expressed in the spinous and granular layers of the epidermis with family member KRT10 and mutations in these genes have been associated with bullous congenital ichthyosiform erythroderma. The type II cytokeratins are clustered in a region of chromosome 12q12-q13. [provided by RefSeq, Jul 2008],

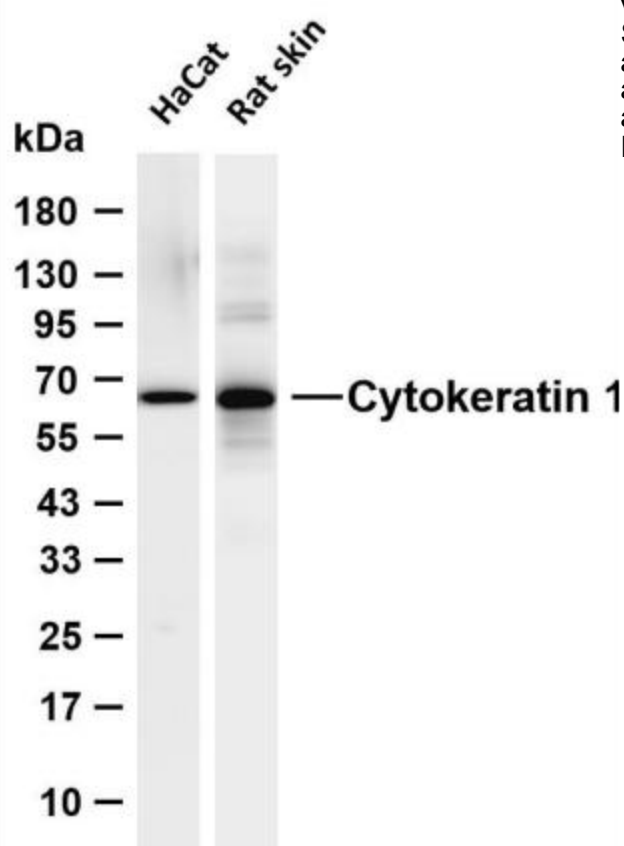
matters needing attention

Avoid repeated freezing and thawing!

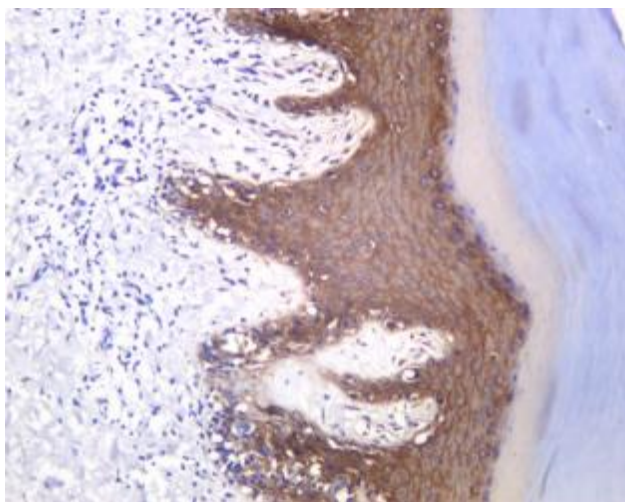
Usage suggestions

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

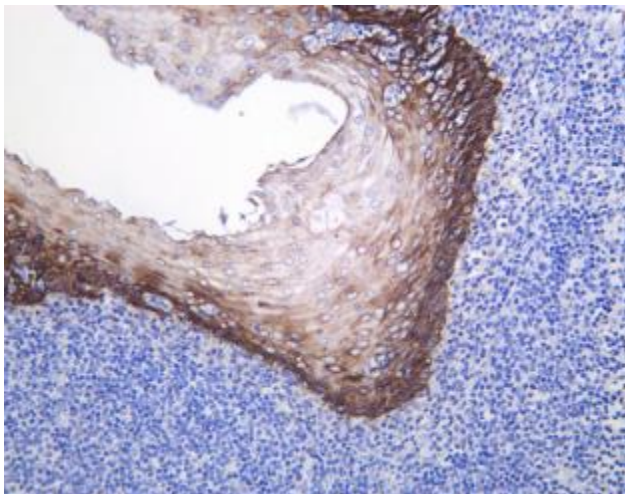




Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-Cytokeratin 1 antibody. The HRP-conjugated Goat anti-Rabbit IgG (H + L) antibody was used to detect the antibody. Lane 1: HaCat Lane 2: Rat skin Predicted band size: 66kDa Observed band size: 66kDa



Human skin was stained with anti-Cytokeratin 1 Rabbit antibody



Human tonsil was stained with anti-Cytokeratin 1 Rabbit antibody

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