

Cytokeratin 5 Rabbit pAb

CatalogNo: [YT1271](#)

| Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- WB, IHC, IF, ELISA

MW

- 62kD (Observed)

Isotype

- IgG

| Storage

Storage* -15°C to -25°C/1 year (Do not lower than -25°C)

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

| Recommended Dilution Ratios

WB 1:500-1:2000

IHC 1:100-1:300

IF 1:200-1:1000

ELISA 1:10000

Not yet tested in other applications.

| Basic Information

Clonality Polyclonal

| Immunogen Information

Immunogen The antiserum was produced against synthesized peptide derived from human Keratin 5. AA range:541-590

Specificity Cytokeratin 5 Polyclonal Antibody detects endogenous levels of Cytokeratin 5 protein.

| Target Information

Gene name KRT5

Protein Name Keratin type II cytoskeletal 5

Organism	Gene ID	UniProt ID
Human	3852 ;	P13647 ;
Mouse	110308 ;	Q922U2 ;
Rat	369017 ;	Q6P6Q2 ;

Cellular Localization nucleus ,cytoplasm ,mitochondrion ,cytosol ,intermediate filament ,plasma membrane ,membrane ,keratin filament ,extracellular exosome ,

Tissue specificity Expressed in corneal epithelium (at protein level) .

Function Disease:Defects in KRT5 are a cause of epidermolysis bullosa simplex Dowling-Meara type (DM-EBS) [MIM:131760]. DM-EBS is a severe form of intraepidermal epidermolysis bullosa characterized by generalized herpetiform blistering , milia formation , dystrophic nails , and mucous membrane involvement. ,Disease:Defects in KRT5 are a cause of epidermolysis bullosa simplex Koebner type (K-EBS) [MIM:131900]. K-EBS is a form of intraepidermal epidermolysis bullosa characterized by generalized skin blistering. The phenotype is not fundamentally distinct from the Dowling-Meara type , although it is less severe. ,Disease:Defects in KRT5 are a cause of epidermolysis bullosa simplex Weber-Cockayne type (WC-EBS) [MIM:131800]. WC-EBS is a form of intraepidermal epidermolysis bullosa characterized by blistering limited to palmar and plantar areas of the skin. ,Disease:Defects in KRT5 are the cause of Dowling-Degos disease (DDD) [MIM:179850]; also known as Dowling-Degos-Kitamura disease or reticulate acropigmentation of Kitamura. DDD is an autosomal dominant genodermatosis. Affected individuals develop a postpubertal reticulate hyperpigmentation that is progressive and disfiguring , and small hyperkeratotic dark brown papules that affect mainly the flexures and great skin folds. Patients usually show no abnormalities of the hair or nails. ,Disease:Defects in KRT5 are the cause of epidermolysis bullosa simplex with migratory circinate erythema (EBSMCE) [MIM:609352]. EBSMCE is a form of intraepidermal epidermolysis bullosa characterized by unusual migratory circinate erythema. Skin lesions appear from birth primarily on the hands , feet , and legs but spare nails , ocular epithelia and mucosae. Lesions heal with brown pigmentation but no scarring. Electron microscopy findings are distinct from those seen in the DM-EBS , with no evidence of tonofilament clumping. ,Disease:Defects in KRT5 are the cause of epidermolysis bullosa simplex with mottled pigmentation (MP-EBS) [MIM:131960]. MP-EBS is a form of intraepidermal epidermolysis bullosa characterized by blistering at acral sites and 'mottled' pigmentation of the trunk and proximal extremities with hyper- and hypopigmentation macules. ,miscellaneous:There are two types of cytoskeletal and microfibrillar keratin: I (acidic; 40-55 kDa) and II (neutral to basic; 56-70 kDa) . ,similarity:Belongs to the intermediate filament family. ,subunit:Heterotetramer of two type I and two type II keratins. Keratin-5 associates with keratin-14. Interacts with TCHP. ,

| Validation Data

| Contact information

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Please scan the QR code
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product information:

Cytokeratin 5
Rabbit pAb

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