



## Rabbit Anti-CK12 antibody

SL4625R

<b>Product Name:</b>	CK12
<b>Chinese Name:</b>	细胞角蛋白12抗体
<b>Alias:</b>	65 kDa cytokeratin; CK 12; CK 3; CK12; CK3; Cytokeratin 12; Cytokeratin 3; K12; K3; keratin 12 (Meesmann corneal dystrophy); Keratin 12; Keratin 3; Keratin, type I cytoskeletal 12; K1C12 HUMAN; Keratin, type II cytoskeletal 3; KRT12; KRT3.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,Dog,Rabbit,
<b>Applications:</b>	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	54kDa
<b>Cellular localization:</b>	cytoplasmicExtracellular matrixSecretory protein
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from human CK12/Cytokeratin 12:151-250/494
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
<b>PubMed:</b>	<a href="#">PubMed</a>
<b>Product Detail:</b>	Cytokeratin 12 is a member of the intermediate filament family of proteins and is a heterotetramer of two type I and two type II keratins. Keratin 3 is specifically expressed in the corneal epithelium with family member KRT12. Cytokeratin 12 encodes the type I intermediate filament chain keratin 12, expressed in corneal epithelia. Defects in KRT3

and KRT12 are a cause of Meesmann corneal dystrophy (MCD), an autosomal dominant disease that causes fragility of the anterior corneal epithelium. Symptoms occur in adulthood and include rupture of the corneal microcysts that may lead to photophobia, contact lens intolerance and intermittent diminution of visual acuity. Defects in KRT12 are a cause of juvenile epithelial corneal dystrophy of Meesmann (MCD)

**Function:**

May play a unique role in maintaining the normal corneal epithelial function. Together with KRT3, essential for the maintenance of corneal epithelium integrity (By similarity).

**Subunit:**

Heterotetramer of two type I and two type II keratins. Keratin-3 associates with keratin-12.

**Tissue Specificity:**

Cornea specific.

**DISEASE:**

Corneal dystrophy, Meesmann (MECD) [MIM:122100]: An autosomal dominant corneal disease characterized by fragility of the anterior corneal epithelium. Patients are usually asymptomatic until adulthood when rupture of the corneal microcysts may cause erosions, producing clinical symptoms such as photophobia, contact lens intolerance and intermittent diminution of visual acuity. Rarely, subepithelial scarring causes irregular corneal astigmatism and permanent visual impairment. Histological examination shows a disorganized and thickened epithelium with widespread cytoplasmic vacuolation and numerous small, round, debris-laden intraepithelial cysts. Note=The disease is caused by mutations affecting the gene represented in this entry.

**Similarity:**

Belongs to the intermediate filament family.

**SWISS:**

Q99456

**Gene ID:**

3859

**Database links:**

[Entrez Gene: 3859](#)Human

[Entrez Gene: 268482](#)Mouse

[Entrez Gene: 360625](#)Rat

[Omim: 601687](#)Human

[SwissProt: Q99456](#)Human

[SwissProt: Q64291](#)Mouse

[SwissProt: Q61FW5](#)Rat

[Unigene: 66739](#)Human

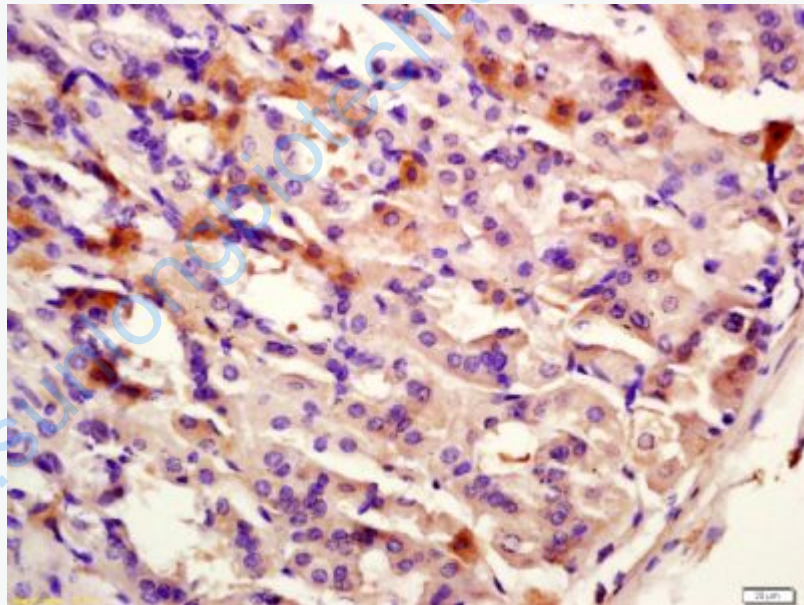
[Unigene: 436651](#)Mouse

[Unigene: 94852](#)Rat

**Important Note:**

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

**Picture:**



Tissue/cell: mouse stomach tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer ( 0.01M, pH 6.0 ), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

Incubation: Anti-CK12 Polyclonal Antibody, Unconjugated(SL4625R) 1:200,

	overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining
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