

bs-4625R**[Primary Antibody]****CK12 Rabbit pAb****BioSS**
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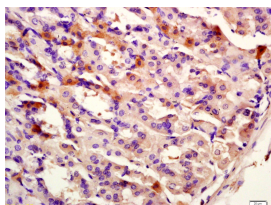
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— DATASHEET —

Host: Rabbit Clonality: Polyclonal GeneID: 3859 Target: CK12 Immunogen: KLH conjugated synthetic peptide derived from human CK12/Cytokeratin 12: 151-250/494. Purification: affinity purified by Protein A Concentration: 1mg/ml Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles. Background: 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)	Isotype: IgG SWISS: Q99456 Applications: IHC-P (1:100-500) IHC-F (1:100-500) IF (1:100-500) Reactivity: Mouse (predicted: Human, Rat, Rabbit, Dog) Predicted MW.: 54 kDa Subcellular Location: Secreted ,Extracellular matrix ,Cytoplasm
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— VALIDATION IMAGES —

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(bs-4625R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

— SELECTED CITATIONS —

- **[IF=4.658]** Fan NW et al. Pigment epithelium-derived factor peptide promotes limbal stem cell proliferation through hedgehog pathway. J Cell Mol Med. 2019 Jul;23(7):4759-4769. IF ;Mouse. 31066230
- **[IF=3.315]** Li Z et al. Rapid Differentiation of Multi-Zone Ocular Cells from Human Induced Pluripotent Stem Cells and Generation of Corneal Epithelial and Endothelial Cells. Stem Cells Dev. 2019 Mar 5. IF ;Human. 30712489

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

- **[IF=3.464]** Xiao Yichen. et al. Galectin-3 Is a Crucial Immunological Disease Marker in Patients with Fungal Keratitis. DIS MARKERS. 2022;2022:1380560 IF ;Human. 35845133