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Cytokeratin 3+12 Rabbit pAb

Catalog # AP97959

Product Information

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	P12035
Other Accession	P12035
Reactivity	Human
Predicted	Rat, Pig, Mouse, Rabbit, Dog, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	64417
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Cytokeratin 3+12
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the intermediate filament family.
SUBUNIT	Heterotetramer of two type I and two type II keratins. Keratin-3 associates with keratin-12.
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.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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 corneal epithelium with family member KRT12 and mutations in these genes have been associated with Meesmann's Corneal Dystrophy. The type II cytokeratins are clustered in a region of chromosome 12q12-q13. [provided by RefSeq, Jul 2008]

Additional Information

Gene ID	3850
Other Names	CK3; K3; MECD2; K2C3_HUMAN; KRT3; 65 kDa cytokeratin; Cytokeratin-3

	(CK-3); Keratin-3 (K3); Type-II keratin Kb3; K2C3_RABIT; keratin 3; keratin, type II cytoskeletal 3; cytokeratin 3
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. 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.

Protein Information

Name	KRT3 (HGNC:6440)
Function	Structural component of intermediate filaments in the corneal epithelium. Forms heteropolymers with the type I keratin KRT12, assembling into keratin intermediate filament networks that provide mechanical strength and structural integrity to the corneal epithelial layer.
Tissue Location	Expressed in the corneal epithelium.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.