

KRT3 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP16759c

Product Information

Application	WB, E
Primary Accession	P12035
Other Accession	NP_476429.2
Reactivity	Human
Predicted	Bovine, Canine
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB36551
Calculated MW	64417
Antigen Region	414-441

Additional Information

Gene ID	3850
Other Names	Keratin, type II cytoskeletal 3, 65 kDa cytokeratin, Cytokeratin-3, CK-3, Keratin-3, K3, Type-II keratin Kb3, KRT3
Target/Specificity	This KRT3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 414-441 amino acids from the Central region of human KRT3.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	KRT3 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

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.

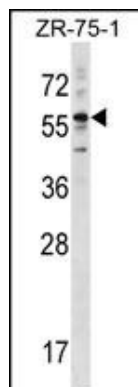
Background

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.

References

Szaflik, J.P., et al. Mol. Vis. 14, 1713-1718 (2008) :
Schweizer, J., et al. J. Cell Biol. 174(2):169-174(2006)
Chen, Y.T., et al. Cornea 24(8):928-932(2005)
Rogers, M.A., et al. J. Invest. Dermatol. 124(3):536-544(2005)
Irvine, A.D., et al. Nat. Genet. 16(2):184-187(1997)

Images



KRT3 Antibody (Center) (Cat. #AP16759c) western blot analysis in ZR-75-1 cell line lysates (35ug/lane). This demonstrates the KRT3 antibody detected the KRT3 protein (arrow).

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