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KERA Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP12617b

Product Information

Application	WB, FC, IHC-P-Leica, E
Primary Accession	O60938
Other Accession	NP_008966.1
Reactivity	Human, Mouse
Predicted	Rat, Bovine, Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB32135
Calculated MW	40509
Antigen Region	228-257

Additional Information

Gene ID	11081
Other Names	Keratocan, KTN, Keratan sulfate proteoglycan keratocan, KERA, SLRR2B
Target/Specificity	This KERA antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 228-257 amino acids from the C-terminal region of human KERA.
Dilution	WB~~1:1000 FC~~1:25 IHC-P-Leica~~1:500 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	KERA Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	KERA
Synonyms	SLRR2B

Function	May be important in developing and maintaining corneal transparency and for the structure of the stromal matrix.
Cellular Location	Secreted, extracellular space, extracellular matrix
Tissue Location	Cornea (at protein level) (PubMed:10802664, PubMed:11683372). Increased expression in the stroma of keratoconus corneas (PubMed:11683372). Also detected in trachea, and in low levels, in intestine, skeletal muscle, ovary, lung and putamen (PubMed:10802664).

Background

The protein encoded by this gene is a keratan sulfate proteoglycan that is involved in corneal transparency. Defects in this gene are a cause of autosomal recessive cornea plana 2 (CNA2).

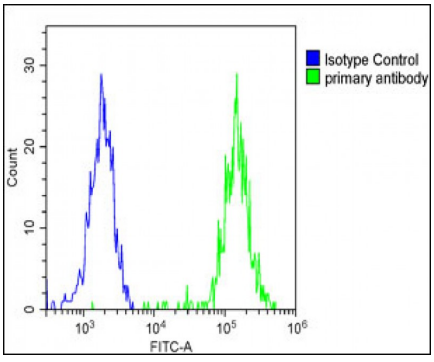
References

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Dimasi, D.P., et al. Mol. Vis. 16, 562-569 (2010) :
Wheeler, H.E., et al. PLoS Genet. 5 (10), E1000685 (2009) :
Melrose, J., et al. Arthritis Res. Ther. 10 (4), R79 (2008) :
Liskova, P., et al. Mol. Vis. 13, 1339-1347 (2007) :

Images

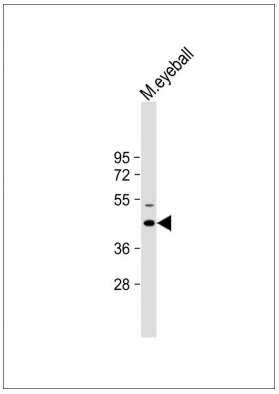


Immunohistochemical analysis of paraffin-embedded human skeletal muscle tissue using AP12617b performed on the Leica® BOND RXm. Samples were incubated with primary antibody(1/500) for 1 hours at room temperature. A undiluted biotinylated CRF Anti-Polyvalent HRP Polymer antibody was used as the secondary antibody.



Overlay histogram showing SK-OV-3 cells stained with AP12617b(green line). The cells were fixed with 2% paraformaldehyde and then permeabilized with 90% methanol for 10 min. The cells were then icubated in 2% bovine serum albumin to block non-specific protein-protein interactions followed by the antibody (1:25 dilution) for 60 min at 37ºC. The secondary antibody used was Goat-Anti-Rabbit IgG, DyLight® 488 Conjugated Highly Cross-Adsorbed at 1/200 dilution for 40 min at Room temperature. Isotype control antibody (blue line) was rabbit IgG1 (1µg/1x10^6 cells) used under the same conditions. Acquisition of >10, 000 events was performed.

Anti-KERA Antibody (C-term) at 1:1000 dilution + Mouse eyeball lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 41 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



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