

Anti-Keratocan Picoband Antibody

Catalog # ABO12339

Product Information

Application	WB
Primary Accession	O60938
Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Keratocan(KERA) detection. Tested with WB in Human;Mouse.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	11081
Other Names	Keratocan, KTN, Keratan sulfate proteoglycan keratocan, KERA, SLRR2B
Calculated MW	40509
Application Details	Western blot, 0.1-0.5 µg/ml, Human, Mouse
Subcellular Localization	Secreted, extracellular space, extracellular matrix .
Tissue Specificity	Cornea. Increased expression in the stroma of keratoconus corneas. Also detected in trachea, and in low levels, in intestine, skeletal muscle, ovary, lung and putamen. .
Source	Eukaryota
Protein Name	Keratocan
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Na ₃ N.
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human Keratocan (77-109aa YLQNNLIETIPEKPFENATQLRWINLNKNKITN), different from the related mouse sequence by two amino acids.
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins
Storage	At -20° C for one year. After r° Constitution, at 4° C for one month. It° Can also be aliquotted and stored frozen at -20° C for a longer time.Avoid repeated

freezing and thawing.

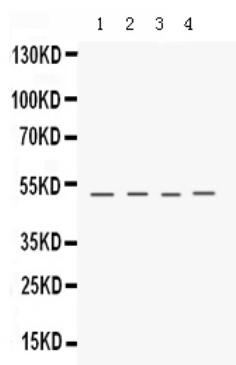
Protein Information

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

Keratocan (KTN), also known as keratan sulfate proteoglycan keratocan, is a protein that in humans is encoded by the KERA gene. It is mapped to 12q22. 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). Keratan sulfate proteoglycans (KSPGs) are members of the small leucine-rich proteoglycan (SLRP) family. KSPGs, particularly keratocan, lumican and mimecan, are important to the transparency of the cornea.

Images



Anti- Keratocan Picoband antibody, ABO12339, Western blotting
All lanes: Anti Keratocan (ABO12339) at 0.5ug/ml
Lane 1: Mouse Testis Whole Cell Lysate at 40ug
Lane 2: Mouse Skeletal Muscle Whole Cell Lysate at 40ug
Lane 3: MCF-7 Whole Cell Lysate at 40ug
Lane 4: A549 Whole Cell Lysate at 40ug
Predicted bind size: 40KD
Observed bind size: 50KD

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