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Anti-Keratocan Picoband Antibody

Catalog # ABO12339

Specification

Anti-Keratocan Picoband Antibody - 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.

Anti-Keratocan Picoband Antibody - Additional Information

Gene ID 11081

Other Names
Keratocan, KTN, Keratan sulfate proteoglycan keratocan, KERA, SLRR2B

Calculated MW
40509 MW KDa

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. .

Protein Name
Keratocan

Contents
Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.

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.**

Anti-Keratocan Picoband Antibody - 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).

Anti-Keratocan Picoband Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-Keratocan Picoband Antibody - Images

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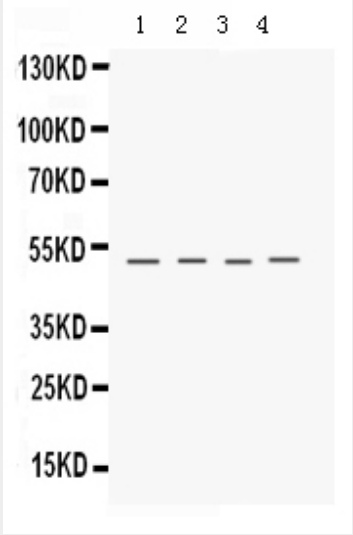

Anti- Keratocan Picoband antibody, ABO12339, Western blottingAll lanes: Anti Keratocan (ABO12339) at 0.5ug/mlLane 1: Mouse Testis Whole Cell Lysate at 40ugLane 2: Mouse Skeletal Muscle Whole Cell Lysate at 40ugLane 3: MCF-7 Whole Cell Lysate at 40ug Lane 4: A549 Whole Cell Lysate at 40ugPredicted bind size: 40KDObserved bind size: 50KD

Anti-Keratocan Picoband Antibody - 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.