Keratocan (KERA) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Keratocan (KERA), Polyclonal Antibody
Full Product Name	HRP-Linked Polyclonal Antibody to Keratocan (KERA)
Product Gene Name	anti-KERA antibody
Product Synonym Names	CNA2; SLRR2B; Keratocan Proteoglycan; Keratan sulfate proteoglycan keratocan
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Mouse, Human, Rat
Concentration	500ug/ml (lot specific)
Matching Pairs	Unconjugated Antibody: KERA (MBS2026719) HRP Conjugated Antibody: KERA (MBS2066601)
Matching Pairs	HRP Conjugated Antibody: KERA (MBS2066601) Immunogen: KERa (MBS2030383)
Molecular Weight	40,509 Da
OMIM	AF065988 Genomic DNA
3D Structure	ModBase 3D Structure for O60938
Supply Chain Verification	Manufactured in a lab with traceable raw materials. Bulk orders can typically be prepared to the customer's specifications, please inquire.
Immunogen	KERa (Gln21~His292)
Conjugation	HRP
Cross Reactivity	Mouse, Rat
Unconjugated Antibody	The unconjugated antibody version of this item is also available as catalog #MBS2026719
ISO Certification	Manufactured in an ISO 9001:2015 and ISO 13485:2016 Certified Laboratory.
Applications Tested/Suitable for anti-KERA antibody	Western Blot (WB), Immunocytochemistry (ICC), Immunohistochemistry (IHC) Formalin/Paraffin, ELISA (ELISA)
Related Product Information for anti-KERA antibody	MBS2066601 is an antibody targeting KERA. Also known as HRP-Linked Polyclonal Antibody to Keratocan (KERA). Reactive in Mouse, Human, Rat. Host: Rabbit.
Other Notes	Small volumes of anti-KERA antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for KERA. It may not necessarily be applicable to this product.

NCBI GI #	5901992
NCBI GeneID	11081
NCBI Accession #	NP_008966.1

UniProt Primary Accession #	O60938
UniProt Related Accession #	O60938
GenBank Nucleotide #	NM_007035.3
NCBI Official Full Name	keratocan
NCBI Official Synonym Full Names	keratocan
NCBI Official Symbol	KERA
NCBI Official Synonym Symbols	KTN; CNA2; SLRR2B
UniProt Protein Name	Keratocan
UniProt Synonym Protein Names	Keratan sulfate proteoglycan keratocan
Protein Family	Keratocan
UniProt Gene Name	KERA
UniProt Synonym Gene Names	SLRR2B; KTN
NCBI Protein Information	keratocan
NCBI Summary for KERA	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).[provided by RefSeq, May 2010]
UniProt Comments for KERA	KERA: May be important in developing and maintaining corneal transparency and for the structure of the stromal matrix. Defects in KERA are the cause of the autosomal recessive cornea plana 2 (CNA2). In CNA2, the forward convex curvature is flattened, leading to a decrease in refraction, reduced visual activity, extreme hyperopia (usually plus 10 d or more), hazy corneal limbus, opacities in the corneal parenchyma, and marked arcus senilis (often detected at an early age). CNA2 is a rare disorder with a worldwide distribution, but a high prevalence in the Finnish population. Belongs to the small leucine-rich proteoglycan (SLRP) family. SLRP class II subfamily. Protein type: Secreted; Secreted, signal peptide Chromosomal Location of Human Ortholog: 12q21.33 Cellular Component: extracellular region; extracellular space; Golgi lumen; lysosomal lumen; proteinaceous extracellular matrix Biological Process: axonogenesis; keratan sulfate biosynthetic process; keratan sulfate catabolic process Disease: Cornea Plana 2
Research Articles on KERA	**1.** The mutation that we report here leads to the deletion of a conserved amino acid (p.Phe125del) from the third LRR motif of the keratocan protein, which might lead to an abnormal tertiary structure of the protein, thereby leading to the disease.
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