

Rabbit anti-Human Lumican Monoclonal Antibody | anti-LUM antibody

Recombinant Anti-Lumican Antibody, Rabbit Monoclonal

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA255446	Rabbit	Human	Immunofluorescence, Immunocytochemistry, Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

Lumican; Monoclonal Antibody; Recombinant Anti-Lumican Antibody; Rabbit Monoclonal; Lumican Antibody; Rabbit MAb; lumican; Anti-LDC Antibody; Anti-SLRR2D Antibody; anti-LUM antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Number	077
Specificity	Human Lumican
Purity/Purification	Protein A
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-LUM antibody	IF (Immunofluorescence), ICC (Immunocytochemistry), FCM/FACS (Flow Cytometry)
Antibody Type	Recombinant Antibody
Immunogen	Recombinant Human Lumican Protein
Conjugation	Unconjugated
Preparation	This antibody was obtained from a rabbit immunized with purified, recombinant Human Lumican (rh Lumican).
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.

IMAGES



FCM/FACS (Flow Cytometry)

Flow cytometric analysis of Human LUM expression on HeLa cells. The cells were treated according to manufacturer's manual (BD Pharmingen), stained with purified anti-Human LUM, then a FITC-conjugated second step antibody. The fluorescence histograms were derived from gated events with the forward and side light-scatter characteristics of intact cells.



IF (Immunofluorescence)

Immunofluorescence staining of Human LUM in Hela cells. Cells were fixed with 4% PFA, permeabilized with 0.3% Triton X-100 in PBS, blocked with 10% serum, and incubated with rabbit anti-Human LUM monoclonal antibody (1:60) at 4 degree C overnight. Then cells were stained with the Alexa Fluor 488-conjugated Goat Anti-rabbit IgG secondary antibody (green) and counterstained with DAPI (blue). Positive staining was localized to cytoplasm.

ADDITIONAL INFORMATION

Related Product Information for anti-LUM antibody	Lumican, a prototypic leucine-rich proteoglycan with keratan sulfate side chains, is a major component of the cornea, dermal, and muscle connective tissues. In these bifunctional molecules, the protein moiety binds collagen fibrils and the highly charged hydrophilic glycosaminoglycans regulate interfibrillar spacings. Lumican is the major keratan sulfate proteoglycan of the cornea but is also distributed in interstitial collagenous matrices throughout the body. Lumican regulates collagenous matrix assembly as a keratan sulfate proteoglycan in the cornea and is also present in the connective tissues of other organs and embryonic corneal stroma as a glycoprotein. Lumican may regulate collagen fibril organization and circumferential growth, corneal transparency, and epithelial cell migration, and tissue repair. lumican expressed in injured epithelium may modulate cell behavior such as adhesion or migration, thus contributing to corneal epithelial wound healing. Lumican plays a crucial role in the regulation of collagen assembly into fibrils in various connective tissues and serve as a definitive link between a necessity for lumican in the development of a highly organized collagenous matrix and corneal transparency.
References	Saika S, et al. (2000) Role of lumican in the corneal epithelium during wound healing. J Biol Chem. 275(4): 2607-12. Chakravarti S, et al. (1998) Lumican regulates collagen fibril assembly: skin fragility and corneal opacity in the absence of lumican. J Cell Biol. 141(5): 1277-86. Ezura Y, et al. (2000) Differential expression of lumican and fibromodulin regulate collagen fibrillogenesis in developing mouse tendons. J Cell Biol. 151(4): 779-88.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4505047
NCBI GeneID	4060
NCBI Accession #	NP_002336.1
NCBI GenBank Nucleotide #	NM_002345.3
UniProt Accession #	P51884; Q96QM7; B2R6R5
NCBI Official Full Name	lumican
NCBI Official Synonym Full Names	lumican
NCBI Official Symbol	LUM
NCBI Official Synonym Symbols	LDC; SLRR2D
NCBI Protein Information	lumican; KSPG lumican; keratan sulfate proteoglycan lumican; lumican proteoglycan
UniProt Protein Name	Lumican
UniProt Gene Name	LUM
UniProt Synonym Gene Names	LDC; SLRR2D; KSPG lumican
UniProt Entry Name	LUM_HUMAN

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