LTBP2 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	LTBP2, Monoclonal Antibody
Full Product Name	LTBP2 (Latent-transforming Growth Factor beta-binding Protein 2, LTBP-2, C14orf141, LTBP3) (MaxLight 550)
Product Gene Name	anti-LTBP2 antibody
Clonality	Monoclonal
Isotype	IgG2a,k
Clone Number	5D7
Host	Mouse
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight550.
Purity/Purification	Purified
Specificity	Recognizes human LTBP2.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight550 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
OMIM	phenotype 614819
3D Structure	ModBase 3D Structure for Q14767
Immunogen	LTBP2 (NP_000419, 1709-1819aa) partial recombinant protein with GST tag. MW of the GST tag alone is 26kD.
Conjugate	MaxLight550
Product Categories/Family for anti-LTBP2 antibody	Antibodies; Binding Proteins
Applications Tested/Suitable for anti-LTBP2 antibody	FLISA, Western Blot (WB)
Application Notes for anti-LTBP2 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-LTBP2 antibody	MaxLight550 is a new Yellow-Green photostable dye conjugate comparable to Alexa Fluor546, 555, DyLight549, Cy3, TRITC and offers better labeling efficiency, brighter imaging and increased immunodetection. Absorbance (550nm); Emission (575nm); Extinction Coefficient 150,000.
Other Notes	Small volumes of anti-LTBP2 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.
Searchable Terms for LTBP2 purchase	MBS6209754 is an antibody targeting LTBP2. Also known as LTBP2 (Latent-transforming Growth Factor beta-binding Protein 2, LTBP-2, C14orf141, LTBP3) (MaxLight 550). Reactive in Human. Host: Mouse.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for LTBP2. It may not necessarily be applicable to this product.

NCBI GI #	4557733

NCBI GeneID	4053
NCBI Accession #	NP_000419
UniProt Primary Accession #	Q14767
UniProt Related Accession #	Q14767
GenBank Nucleotide #	NP_000419.1
NCBI Official Full Name	latent-transforming growth factor beta-binding protein 2
NCBI Official Synonym Full Names	latent transforming growth factor beta binding protein 2
NCBI Official Symbol	LTBP2
NCBI Official Synonym Symbols	WMS3; GLC3D; LTBP3; MSPKA; MSTP031; C14orf141
UniProt Protein Name	Latent-transforming growth factor beta-binding protein 2
Protein Family	Latent-transforming growth factor beta-binding protein
UniProt Gene Name	LTBP2
UniProt Synonym Gene Names	C14orf141; LTBP3; LTBP-2
UniProt Entry Name	LTBP2_HUMAN
NCBI Protein Information	latent-transforming growth factor beta-binding protein 2
NCBI Summary for LTBP2	The protein encoded by this gene belongs to the family of latent transforming growth factor (TGF)-beta binding proteins (LTBP), which are extracellular matrix proteins with multi-domain structure. This protein is the largest member of the LTBP family possessing unique regions and with most similarity to the fibrillins. It has thus been suggested that it may have multiple functions: as a member of the TGF-beta latent complex, as a structural component of microfibrils, and a role in cell adhesion. [provided by RefSeq, Jul 2008]
UniProt Comments for LTBP2	LTBP2: May play an integral structural role in elastic-fiber architectural organization and/or assembly. Defects in LTBP2 are the cause of primary congenital glaucoma type 3D (GLC3D). An autosomal recessive form of primary congenital glaucoma (PCG). PCG is characterized by marked increase of intraocular pressure at birth or early childhood, large ocular globes (buphthalmos) and corneal edema. It results from developmental defects of the trabecular meshwork and anterior chamber angle of the eye that prevent adequate drainage of aqueous humor. Defects in LTBP2 are the cause of microspherophakia (MCSPH). It is a rare disease characterized by smaller and more spherical lenses than normal bilaterally, an increased anteroposterior thickness of the lens and highly myopic eyes. Lens dislocation or subluxation may occur, leading to defective accommodation. Defects in LTBP2 are the cause of Weill-Marchesani syndrome 3 (WMS3). A rare connective tissue disorder characterized by short stature, brachydactyly, joint stiffness, and lens abnormalities. Belongs to the LTBP family. Protein type: Secreted; Secreted, signal peptide Chromosomal Location of Human Ortholog: 14q24 Cellular Component: extracellular matrix; extracellular space; proteinaceous extracellular matrix Molecular Function: heparin binding; protein binding; growth factor binding; calcium ion binding Biological Process: transforming growth factor beta receptor signaling pathway; protein secretion; protein targeting Disease: Glaucoma 3, Primary Congenital, D; Microspherophakia And/or Megalocornea, With Ectopia Lentis And With Or Without Secondary Glaucoma; Glaucoma 3, Primary Infantile, B; Weill-marchesani Syndrome 3
Research Articles on LTBP2	**1.** Our findings point out LTBP2 as responsible of a systemic phenotype coherent with the community of syndromes related to anomalies in genes involved in the TGFb-pathway. Among these disorders, LTBP2-related systemic disease emerges as a distinct condition with expanding prognostic implications and autosomal recessive inheritance.

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