TSPAN12 Antibody

PRODUCT OVERVIEW

Product Name	TSPAN12, Antibody
Full Product Name	TSPAN12 Antibody
Product Gene Name	anti-TSPAN12 antibody
Molecular Weight	22,511 Da
OMIM	613138
3D Structure	ModBase 3D Structure for O95859
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for anti-TSPAN12 antibody	MBS8502386 is an antibody targeting TSPAN12. Also known as TSPAN12 Antibody.
Other Notes	Small volumes of anti-TSPAN12 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 TSPAN12. It may not necessarily be applicable to this product.

NCBI GI #	6912528
NCBI GeneID	23554
NCBI Accession #	NP_036470.1
UniProt Primary Accession #	O95859
UniProt Secondary Accession #	Q549U9; Q8N5Y0; A4D0V8; B4DRG6
UniProt Related Accession #	O95859
GenBank Nucleotide #	NM_012338.3
NCBI Official Full Name	tetraspanin-12
NCBI Official Synonym Full Names	tetraspanin 12
NCBI Official Symbol	TSPAN12
NCBI Official Synonym Symbols	EVR5; NET2; NET-2; TM4SF12
UniProt Protein Name	Tetraspanin-12
UniProt Synonym Protein Names	Tetraspan NET-2; Transmembrane 4 superfamily member 12
UniProt Gene Name	TSPAN12
UniProt Synonym Gene Names	NET2; TM4SF12; Tspan-12
NCBI Protein Information	tetraspanin-12

NCBI Summary for TSPAN12	The protein encoded by this gene is a member of the transmembrane 4 superfamily, also known as the tetraspanin family. Most of these members are cell-surface proteins that are characterized by the presence of four hydrophobic domains. The proteins mediate signal transduction events that play a role in the regulation of cell development, activation, growth and motility. [provided by RefSeq, Jul 2008]
UniProt Comments for TSPAN12	Regulator of cell surface receptor signal transduction. Plays a central role in retinal vascularization by regulating norrin (NDP) signal transduction. Acts in concert with norrin (NDP) to promote FZD4 multimerization and subsequent activation of FZD4, leading to promote accumulation of beta-catenin (CTNNB1) and stimulate LEF/TCF-mediated transcriptional programs. Suprisingly, it only activate the norrin (NDP)-dependent activation of FZD4, while it does not activate the Wnt-dependent activation of FZD4, suggesting the existence of a Wnt-independent signaling that also promote accumulation the beta-catenin (CTNNB1) (). Acts as a regulator of membrane proteinases such as ADAM10 and MMP14/MT1-MMP. Activates ADAM10-dependent cleavage activity of amyloid precursor protein (APP). Activates MMP14/MT1-MMP-dependent cleavage activity.
Research Articles on TSPAN12	**1.** We identified two novel heterozygous deletion mutations [LRP5, c.4053 DelC (p.Ile1351IlefsX88); TSPAN12, EX8Del] using targeted NGS as a causative mutation for Familial exudative vitreoretinopathy (FEVR).
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