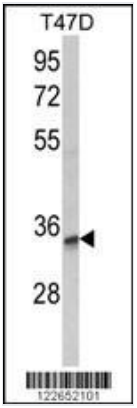
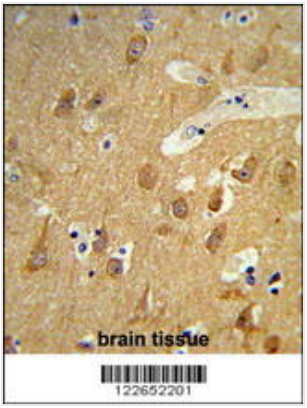
TSPAN12 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

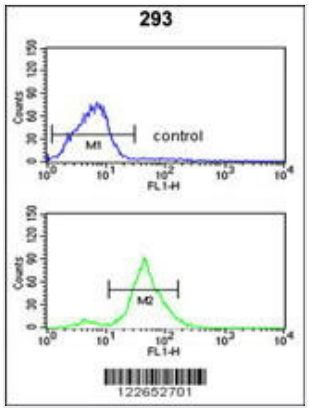
Product Name	TSPAN12, Polyclonal Antibody
Full Product Name	TSPAN12, CT (Tetraspanin-12, Tspan-12, Transmembrane 4 Superfamily Member 12, Tetraspan NET-2, NET2, TM4SF12, UNQ774/PRO1568) (AP)
Product Gene Name	anti-TSPAN12 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Alkaline Phosphatase (AP).
Purity/Purification	Purified by Immunoaffinity chromatography.
Specificity	Recognizes human TSPAN12.
Preparation and Storage	May be stored at 4 degree C for short-term only. Do not freeze alkaline phosphatase conjugates which could result in a substantial loss of enzymatic activity. Light sensitive. Aliquots are stable for at least 6 months. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	35,383 Da
Chromosome Location	Chromosome: 7; NC_000007.13 (120427374..120498177, complement). Location: 7q31.31
OMIM	gene 613310
3D Structure	ModBase 3D Structure for O95859
Immunogen	Synthetic peptide selected from the C-terminal region of human TSPAN12 (KLH).
Conjugate	AP
Note	Preservative Free
Product Categories/Family for anti-TSPAN12 antibody	Antibodies; Tetraspanin
Applications Tested/Suitable for anti-TSPAN12 antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-TSPAN12 antibody	WB: 1:100-1:500 ELISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-TSPAN12 antibody	MBS6502382 is an antibody targeting TSPAN12. Also known as TSPAN12, CT (Tetraspanin-12, Tspan-12, Transmembrane 4 Superfamily Member 12, Tetraspan NET-2, NET2, TM4SF12, UNQ774/PRO1568) (AP). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-TSPAN12 antibody	1. Xu, D., et.al., FASEB J. 23(11), 3674-3681 (2009). 2. Berditchevski, F.et.al., J. Cell. Sci. 114(PT 23), 4143-4151 (2001).
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.



Western Blot (WB) of anti-TSPAN12 antibody
Western blot analysis of TSPAN12 Antibody (C-term) in T47D cell line lysates (35ug/lane). TSPAN12 (arrow) was detected using the purified Pab.



Immunohistochemistry (IHC) of anti-TSPAN12 antibody
Formalin-fixed and paraffin-embedded human brain tissue reacted with TSPAN12 Antibody (C-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



Flow Cytometry (FC/FACS) of anti-TSPAN12 antibody
TSPAN12 Antibody (C-term) flow cytometric analysis of 293 cells (bottom histogram) compared to a negative control cell (top histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

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
UniProt Entry Name	TSN12_HUMAN
NCBI Protein Information	tetraspanin-12; tspan-12; tetraspan NET-2; OTTHUMP00000211223; OTTHUMP00000211224; transmembrane 4 superfamily member 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]
UniProt Comments for TSPAN12	TSPAN12: a multi-pass membrane protein. Member of the transmembrane 4 superfamily, also known as the tetraspanin family. 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. Defects in TSPAN12 are the cause of vitreoretinopathy exudative type 5 (EVR5). It is a disorder of the retinal vasculature characterized by an abrupt cessation of growth of peripheral capillaries, leading to an avascular peripheral retina. Twp isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, integral; Receptor, misc.; Membrane protein, multi-pass Chromosomal Location of Human Ortholog: 7q31.31 Cellular Component: membrane; integral to plasma membrane; integral to membrane Molecular Function: Wnt receptor activity Biological Process: cell surface receptor linked signal transduction; angiogenesis; regulation of angiogenesis Disease: Exudative Vitreoretinopathy 5
Research Articles on TSPAN12	**1.** TSPAN12 promotes Norrin/Frizzled-4 signaling during retinal vascularization.
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