

Rabbit anti-Human, mouse TSPAN1 Polyclonal Antibody | anti-TSPAN1 antibody

TSPAN1 Antibody (Center)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA28745	Rabbit	Human, mouse	Western Blot, ELISA, Immunohistochemistry, Flow Cytometry, Functional Assay

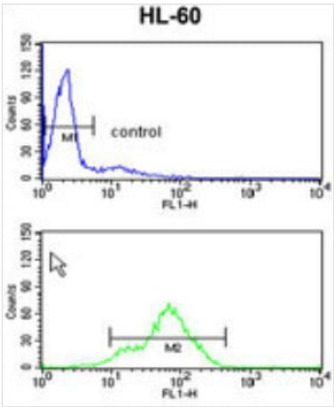
PRODUCT SYNONYMS

TSPAN1; Polyclonal Antibody; TSPAN1 Antibody (Center); Tetraspanin-1; Tspan-1; Tetraspan NET-1; Tetraspanin TM4-C; anti-TSPAN1 antibody

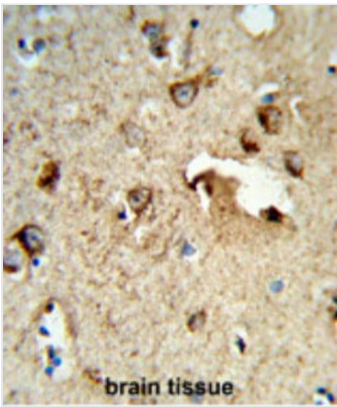
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, mouse
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	This TSPAN1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 140-167 amino acids from the Central region of human TSPAN1.
Purity/Purification	This antibody is purified through a protein A column, followed by peptide affinity purification.
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.
Sequence Positions	140-167
Sequence Length	241
Applicable Applications for anti-TSPAN1 antibody	WB (Western Blot), ELISA, IHC (Immunohistochemistry), FCM/FACS (Flow Cytometry)
Application Notes	WB~~1:1000 IHC-P~~1:50~100 FC~~1:10~50
Function	Structural component of specialized membrane microdomains known as tetraspanin-enriched microdomains (TERMs), which act as platforms for receptor clustering and signaling. Participates thereby in diverse biological functions such as cell signal transduction, adhesion, migration and protein trafficking (PubMed:30066932, PubMed:30291375). Regulates neuronal differentiation in response to NGF by facilitating NGF-mediated activation of NTRK1/TRKA receptor tyrosine kinase and subsequent downstream signaling pathways (By similarity). Plays a role in the inhibition of TNFalpha-induced apoptosis. Mechanistically, inhibits the NF-kappa-B signaling pathway by blocking phosphorylation of CHUK (PubMed:30291375). Promotes also the stability of the thiamine transporter 1/SLC19A2 in intestinal epithelial cells leading to an increase of thiamine uptake process (PubMed:21836059)
Cellular Location	Cell membrane; Multi-pass membrane protein. Lysosome membrane; Multi- pass membrane protein
Preparation and Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

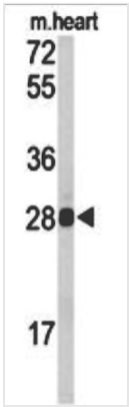
IMAGES



FCM (Flow Cytometry)
TSPAN1 Antibody (Center) flow cytometry analysis of HL-60 cells (bottom histogram) compared to a negative control cell (top histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



IHC (Immunohistochemistry)
Formalin-fixed and paraffin-embedded human brain tissue reacted with TSPAN1 Antibody (Center), 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.



WB (Western Blot)
Western blot analysis of TSPAN1 Antibody (Center) in mouse heart tissue lysates (35ug/lane). TSPAN1 (arrow) was detected using the purified Pab.

ADDITIONAL INFORMATION

Related Product Information for anti-TSPAN1 antibody	TSPAN1 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.
Product Categories/Family for anti-TSPAN1 antibody	Cancer; Cell Biology; Signal transduction
References	Xu,D., et.al., FASEB J. 23 (11), 3674-3681 (2009) Berditchevski,F.et.al., J. Cell. Sci. 114 (PT 23), 4143-4151 (2001)

NCBI AND UNIPROT INFORMATION

NCBI GI #	21264578
NCBI GeneID	10103
NCBI Accession #	NP_005718.2
NCBI GenBank Nucleotide #	NM_005727.3
UniProt Accession #	O60635; O60745; Q5VST0; D3DQ14

NCBI Official Full Name	tetraspanin-1
NCBI Official Synonym Full Names	tetraspanin 1
NCBI Official Symbol	TSPAN1
NCBI Official Synonym Symbols	NET1; TM4C; TM4SF
NCBI Protein Information	tetraspanin-1
UniProt Protein Name	Tetraspanin-1
UniProt Gene Name	TSPAN1
UniProt Synonym Gene Names	Tspan-1
UniProt Entry Name	TSN1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/tspan1-antibody-western-blot-immunohistochemistry-flow-cytometry-elisa/28745>