

TSPAN1 Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP8693c**Specification**

TSPAN1 Antibody (Center) Blocking Peptide - Product Information

Primary Accession [O60635](#)
Other Accession [O95859](#)

TSPAN1 Antibody (Center) Blocking Peptide - Additional Information

Gene ID 10103

Other Names

Tetraspanin-1, Tspan-1, Tetraspan NET-1, Tetraspanin TM4-C, TSPAN1

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

TSPAN1 Antibody (Center) Blocking Peptide - Protein Information

Name TSPAN1

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:<[a href="http://www.uniprot.org/citations/30066932" target="_blank">30066932](http://www.uniprot.org/citations/30066932), PubMed:<[a href="http://www.uniprot.org/citations/30291375" target="_blank">30291375](http://www.uniprot.org/citations/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:<[a href="http://www.uniprot.org/citations/30291375" target="_blank">30291375](http://www.uniprot.org/citations/30291375)). Also promotes the stability of the thiamine transporter 1/SLC19A2 in intestinal epithelial cells leading to an increase of thiamine uptake process (PubMed:<[a href="http://www.uniprot.org/citations/21836059" target="_blank">21836059](http://www.uniprot.org/citations/21836059)).

Cellular Location

Cell membrane; Multi-pass membrane protein. Lysosome membrane; Multi-pass membrane protein

TSPAN1 Antibody (Center) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

TSPAN1 Antibody (Center) Blocking Peptide - Images

TSPAN1 Antibody (Center) Blocking Peptide - Background

TSPAN12 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.

TSPAN1 Antibody (Center) Blocking Peptide - 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)