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TSPAN12 Antibody (C-term) Blocking Peptide

Synthetic peptide
Catalog # BP8693b

Specification

TSPAN12 Antibody (C-term) Blocking Peptide - Product Information

Primary Accession O95859

TSPAN12 Antibody (C-term) Blocking Peptide - Additional Information

Gene ID 23554

Other Names
Tetraspanin-12, Tspan-12, Tetraspan NET-2, Transmembrane 4 superfamily member 12, TSPAN12, NET2, TM4SF12

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP8693b was selected from the C-term region of human TSPAN12. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

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.

TSPAN12 Antibody (C-term) Blocking Peptide - Protein Information

Name TSPAN12

Synonyms NET2, TM4SF12

Function
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 activates 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) (By similarity). 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.

Cellular Location
Cell membrane; Multi-pass membrane protein

TSPAN12 Antibody (C-term) Blocking Peptide - Protocols

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

- Blocking Peptides

TSPAN12 Antibody (C-term) Blocking Peptide - Images

TSPAN12 Antibody (C-term) 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.

TSPAN12 Antibody (C-term) 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)