

## Rabbit TSPAN12 Polyclonal Antibody | anti-TSPAN12 antibody

TSPAN12 Antibody (C-term)

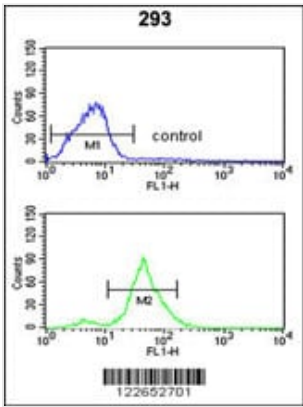
| CATALOG # | HOST   | REACTIVITY                                       | APPLICATIONS                                                                |
|-----------|--------|--------------------------------------------------|-----------------------------------------------------------------------------|
| AAA287231 | Rabbit | Human (Predicted Reactivity: Bovine, Mouse, Rat) | ELISA, Flow Cytometry, Functional Assay, Immunohistochemistry, Western Blot |

### PRODUCT SYNONYMS

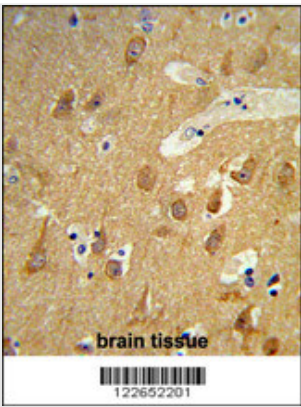
TSPAN12; Polyclonal Antibody; TSPAN12 Antibody (C-term); Tetraspanin-12; Tspan-12; Tetraspan NET-2; Transmembrane 4 superfamily member 12; NET2; TM4SF12; anti-TSPAN12 antibody

### PRODUCT SPECIFICATIONS

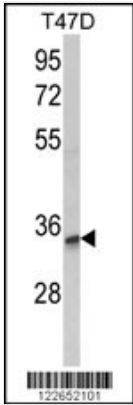
|                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|---------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                              | Rabbit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Reactivity                                        | Human (Predicted Reactivity: Bovine, Mouse, Rat)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Clonality                                         | Polyclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Isotype                                           | Rabbit Ig                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Specificity                                       | This TSPAN12 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 232-259 amino acids from the C-terminal region of human TSPAN12.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Purity/Purification                               | Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Form/Format                                       | Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Sequence Positions                                | 232-259                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Sequence Length                                   | 192                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Applicable Applications for anti-TSPAN12 antibody | ELISA, FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), WB (Western Blot)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Calculated MW                                     | 35383                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 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. Surprisingly, 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) (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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |



**FCM/FACS (Flow Cytometry)**  
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.



**IHC (Immunohistochemistry)**  
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.



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

ADDITIONAL INFORMATION

|                                                       |                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-TSPAN12 antibody | 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. |
| Product Categories/Family for anti-TSPAN12 antibody   | Cell biology; Neuroscience                                                                                                                                                                                                                                                                                                                                 |
| References                                            | Xu,D., et.al., FASEB J. 23 (11), 3674-3681 (2009)<br>Berditchevski,F.et.al., J. Cell. Sci. 114 (PT 23), 4143-4151 (2001)                                                                                                                                                                                                                                   |

NCBI AND UNIPROT INFORMATION

|                           |                                        |
|---------------------------|----------------------------------------|
| NCBI GI #                 | 6912528                                |
| NCBI GeneID               | 23554                                  |
| NCBI Accession #          | NP_036470.1                            |
| NCBI GenBank Nucleotide # | NM_012338.3                            |
| UniProt Accession #       | O95859; Q549U9; Q8N5Y0; A4D0V8; B4DRG6 |

|                                  |                            |
|----------------------------------|----------------------------|
| 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 |
| NCBI Protein Information         | tetraspanin-12             |
| UniProt Protein Name             | Tetraspanin-12             |
| UniProt Gene Name                | <b>TSPAN12</b>             |
| UniProt Synonym Gene Names       | NET2; TM4SF12; Tspan-12    |
| UniProt Entry Name               | TSN12_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://www.aaabiotech.com/polyclonal/tspan12-antibody-flow-cytometry-immunohistochemistry-western-blot-elisa/287231>