

## Rabbit TPM4 Polyclonal Antibody | anti-TPM4 antibody

TPM4 Antibody (N-term)

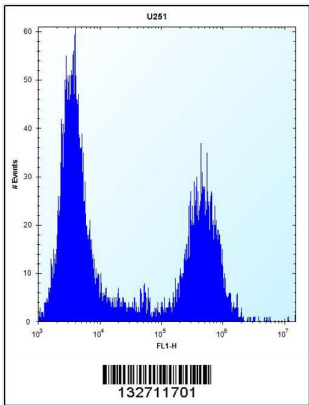
| CATALOG # | HOST   | REACTIVITY                        | APPLICATIONS                                          |
|-----------|--------|-----------------------------------|-------------------------------------------------------|
| AAA289205 | Rabbit | Human (Predicted Reactivity: Pig) | Flow Cytometry, Functional Assay, ELISA, Western Blot |

### PRODUCT SYNONYMS

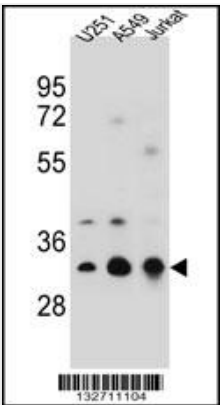
TPM4; Polyclonal Antibody; TPM4 Antibody (N-term); Tropomyosin alpha-4 chain; TM30p1; Tropomyosin-4; anti-TPM4 antibody

### PRODUCT SPECIFICATIONS

|                                                |                                                                                                                                                                              |
|------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                           | Rabbit                                                                                                                                                                       |
| Reactivity                                     | Human (Predicted Reactivity: Pig)                                                                                                                                            |
| Clonality                                      | Polyclonal                                                                                                                                                                   |
| Isotype                                        | Rabbit Ig                                                                                                                                                                    |
| Specificity                                    | This TPM4 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 26-54 amino acids from the N-terminal region of human TPM4.           |
| 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. |
| Concentration                                  | Vial Concentration: 0.5 (varies by lot)                                                                                                                                      |
| Sequence Positions                             | 26-54                                                                                                                                                                        |
| Sequence Length                                | 284                                                                                                                                                                          |
| Applicable Applications for anti-TPM4 antibody | FCM/FACS (Flow Cytometry), ELISA, WB (Western Blot)                                                                                                                          |
| Antigen Type                                   | Synthetic Peptide                                                                                                                                                            |
| Antigen Source                                 | HUMAN                                                                                                                                                                        |
| Preparation and Storage                        | Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.                       |



**FCM/FACS (Flow Cytometry)**  
TPM4 Antibody (N-term) flow cytometric analysis of U251 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



**WB (Western Blot)**  
TPM4 Antibody (N-term) western blot analysis in U251,A549,Jurkat cell line lysates (35ug/lane).This demonstrates the TPM4 antibody detected the TPM4 protein (arrow).

ADDITIONAL INFORMATION

|                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-TPM4 antibody | This gene encodes a member of the tropomyosin family of actin-binding proteins involved in the contractile system of striated and smooth muscles and the cytoskeleton of non-muscle cells. Tropomyosins are dimers of coiled-coil proteins that polymerize end-to-end along the major groove in most actin filaments. They provide stability to the filaments and regulate access of other actin-binding proteins. In muscle cells, they regulate muscle contraction by controlling the binding of myosin heads to the actin filament. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq]. |
| Product Categories/Family for anti-TPM4 antibody   | Signal Transduction                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| References                                         | Martins-de-Souza, D., et al. J Psychiatr Res 44(14):989-991(2010)<br>Vlahovich, N., et al. Cell Motil. Cytoskeleton 65(1):73-85(2008)<br>Montesano Gesualdi, N., et al. Free Radic. Res. 40(5):467-476(2006)<br>Hossain, M.M., et al. J. Biol. Chem. 280(51):42442-42453(2005)<br>Bruneel, A., et al. Proteomics 5(15):3876-3884(2005)                                                                                                                                                                                                                                                                                                               |

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                |
|----------------------------------|--------------------------------------------------------------------------------|
| NCBI GI #                        | 223555975                                                                      |
| NCBI GeneID                      | 7171                                                                           |
| NCBI Accession #                 | NP_001138632.1; NP_003281.1                                                    |
| NCBI GenBank Nucleotide #        | NM_001145160.1                                                                 |
| UniProt Accession #              | P67936; P07226; Q15659; Q5U0D9; Q9BU85; Q9H8Q3; Q9UCS1; Q9UCS2; Q9UCS3; Q9UCS4 |
| Molecular Weight                 | 28522                                                                          |
| NCBI Official Full Name          | tropomyosin alpha-4 chain isoform Tpm4.1cy                                     |
| NCBI Official Synonym Full Names | tropomyosin 4                                                                  |
| NCBI Official Symbol             | TPM4                                                                           |
| NCBI Official Synonym Symbols    | HEL-S-108                                                                      |

|                          |                           |
|--------------------------|---------------------------|
| NCBI Protein Information | tropomyosin alpha-4 chain |
| UniProt Protein Name     | Tropomyosin alpha-4 chain |
| UniProt Gene Name        | TPM4                      |
| UniProt Entry Name       | TPM4_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/tpm4-antibody-flow-cytometry-western-blot-elisa/289205>