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# TMOD4 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP17611c

## Product Information

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|---|---|
| **Application** | WB, E |
| **Primary Accession** | Q9NZQ9 |
| **Other Accession** | Q9JLH8, Q0VC48, NP_037485.2 |
| **Reactivity** | Human |
| **Predicted** | Bovine, Mouse, Rat, Canine, Rabbit, Chicken |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Isotype** | Rabbit IgG |
| **Clone Names** | RB37649 |
| **Calculated MW** | 39335 |
| **Antigen Region** | 150-176 |

## Additional Information

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| **Gene ID** | 29765 |
| **Other Names** | Tropomodulin-4, Skeletal muscle tropomodulin, Sk-Tmod, TMOD4 |
| **Target/Specificity** | This TMOD4 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 150-176 amino acids from the Central region of human TMOD4. |
| **Dilution** | WB~~1:1000 E~~Use at an assay dependent concentration. |
| **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. |
| **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. |
| **Precautions** | TMOD4 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures. |

## Protein Information

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| **Name** | TMOD4 |
| **Function** | Blocks the elongation and depolymerization of the actin filaments at the pointed end. The Tmod/TM complex contributes to the formation of the short actin protofilament, which in turn defines the geometry of the membrane |

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|---|---|
| | skeleton. |
| **Cellular Location** | Cytoplasm, cytoskeleton. Note=In myofibrils with sarcomeric structure, localizes to the pointed end of actin thin filaments (PubMed:25250574). |
| **Tissue Location** | Highly expressed in skeletal muscle. |

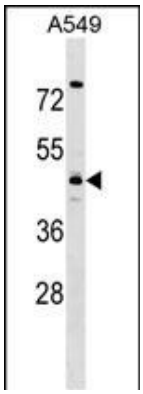
## Background

TMOD4 blocks the elongation and depolymerization of the actin filaments at the pointed end. The Tmod/TM complex contributes to the formation of the short actin protofilament, which in turn defines the geometry of the membrane skeleton.

## References

Lamesch, P., et al. Genomics 89(3):307-315(2007)
Cox, P.R., et al. BMC Genomics 2 (1), 7 (2001) :
Cox, P.R., et al. Genomics 63(1):97-107(2000)
Almenar-Queralt, A., et al. J. Biol. Chem. 274(40):28466-28475(1999)

## Images




TMOD4 Antibody (Center) (Cat. #AP17611c) western blot analysis in A549 cell line lysates (35ug/lane).This demonstrates the TMOD4 antibody detected the TMOD4 protein (arrow).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.