

For Research Use Only

# TMOD4 Polyclonal antibody

Catalog Number: 11753-1-AP **7 Publications**



## Basic Information

<b>Catalog Number:</b> 11753-1-AP	<b>GenBank Accession Number:</b> BC017810	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 133 ug/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 29765	<b>Recommended Dilutions:</b> WB: 1:500-1:1000
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q9NZQ9	IP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
<b>Isotype:</b> IgG	<b>Full Name:</b> tropomodulin 4 (muscle)	IHC: 1:50-1:500
<b>Immunogen Catalog Number:</b> AG2349	<b>Calculated MW:</b> 345 aa, 39 kDa	
	<b>Observed MW:</b> 39 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, IP, ELISA	<b>Positive Controls:</b>
<b>Cited Applications:</b> WB, IHC, IF	<b>WB :</b> mouse skeletal muscle tissue, HeLa cells, human brain tissue
<b>Species Specificity:</b> human, mouse, rat	<b>IP :</b> mouse skeletal muscle tissue,
<b>Cited Species:</b> mouse, rat, zebrafish, xenopus, branchiostoma belcheri	<b>IHC :</b> mouse skeletal muscle tissue, human gliomas tissue
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## Background Information

TMOD4 is a member of tropomodulin (Tmod) family proteins which are capping proteins binding to the pointed end of actin filaments and preventing both elongation and depolymerization. Four mammalian Tmod genes have been identified to date. Tmod1 is expressed in terminally-differentiated post-mitotic cells, like heart, brain, lens, vasculature, and erythrocytes; Tmod2 expressed in neurons; Tmod3 expressed ubiquitously; Tmod4 expressed only in skeletal muscles. This antibody was raised against the full-length human TMOD4 and may cross-react with other Tmods.

## Notable Publications

Author	Pubmed ID	Journal	Application
Joachim Berger	25288681	Dis Model Mech	IF
Chinedu U Nworu	25431137	J Cell Sci	WB,IF
Ambjorn Brynnel	30565562	Elife	WB

## Storage

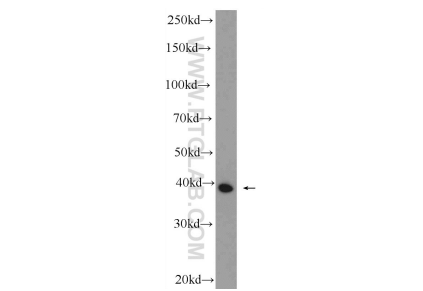
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
**Aliquoting is unnecessary for -20°C storage**

\*\*\* 20ul sizes contain 0.1% BSA

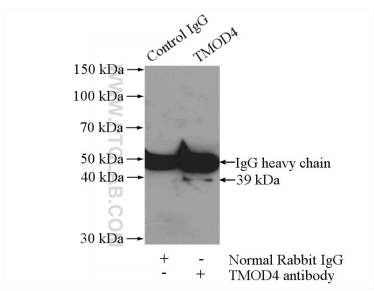
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

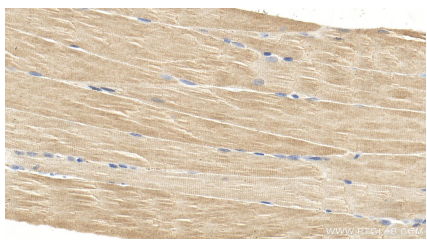
Selected Validation Data



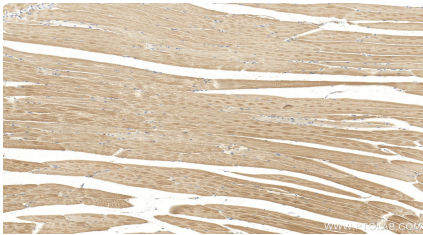
mouse skeletal muscle tissue were subjected to SDS PAGE followed by western blot with 11753-1-AP (TMOD4 Antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



IP result of anti-TMOD4 (IP:11753-1-AP, 4ug; Detection:11753-1-AP 1:600) with mouse skeletal muscle tissue lysate 3600ug.



Immunohistochemical analysis of paraffin-embedded mouse skeletal muscle tissue slide using 11753-1-AP (TMOD4 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse skeletal muscle tissue slide using 11753-1-AP (TMOD4 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).