

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> 260 µg/ml	<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 µg for 1.0-3.0 mg of total protein lysate
<b>Isotype:</b> IgG	<b>Full Name:</b> tropomodulin 4 (muscle)	IHC 1:20-1:200
<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> IHC, IP, WB, ELISA	<b>Positive Controls:</b> WB : mouse skeletal muscle tissue, HeLa cells, human brain tissue
<b>Cited Applications:</b> WB, IF, IHC	IP : mouse skeletal muscle tissue,
<b>Species Specificity:</b> human, mouse, rat	IHC : human gliomas tissue,
<b>Cited Species:</b> rat, mouse, Branchiostoma belcheri, zebrafish, Xenopus	

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

## 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. Tomd1 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

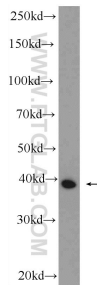
## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

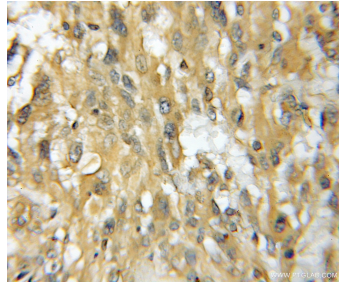
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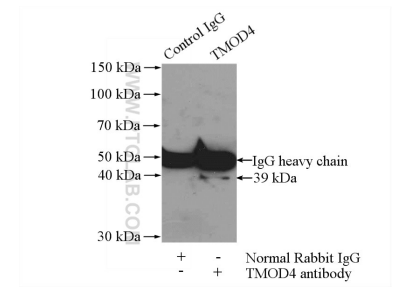
## Selected Validation Data



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.



Immunohistochemical analysis of paraffin-embedded human gliomas using 11753-1-AP (TMOD4 antibody) at dilution of 1:50 (under 10x lens).



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