

For Research Use Only

TPM4 Polyclonal antibody

Catalog Number: 13741-1-AP

Featured Product

5 Publications



Basic Information

Catalog Number: 13741-1-AP	GenBank Accession Number: BC037576	Purification Method: Antigen affinity purification
Size: 150ul, Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 7171	Recommended Dilutions: WB 1:500-1:2000 IHC 1:20-1:200
Source: Rabbit	Full Name: tropomyosin 4	
Isotype: IgG	Calculated MW: 248 aa, 29 kDa	
Immunogen Catalog Number: AG4679	Observed MW: 32-35 kDa	

Applications

Tested Applications: IHC, WB, ELISA	Positive Controls:
Cited Applications: IHC, WB	WB : mouse skeletal muscle tissue, HeLa cells, rat skeletal muscle tissue
Species Specificity: human, mouse, rat	IHC : human endometrial cancer tissue,
Cited Species: human, mouse	
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

TPM4, also named as TM30p1, Tropomyosin 4, Tropomyosin alpha 4 chain. This gene is one gene type of tropomyosin isoforms and 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. Tropomyosin is a major regulatory protein of cytoskeleton and is localized along actin filaments modulating the interaction of actin and myosin (PubMed: 26315888, PubMed: 32638329). In addition, TPM4 has been reported as an oncoprotein in several malignancies (PubMed: 37459535). The calculated molecular weight of TPM4 is usually approximately 28 kDa. It may have two isoforms: the short 30-kDa isoform (TPM4.2) and the long 38-kDa isoform (TPM4.1) (PubMed: 28134622).

Notable Publications

Author	Pubmed ID	Journal	Application
Jingjing Dai	32801739	Onco Targets Ther	WB
Linjing Li	33390785	Int J Med Sci	WB, IHC
Q Zhou	30739146	Osteoporos Int	WB

Storage

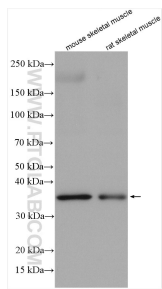
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

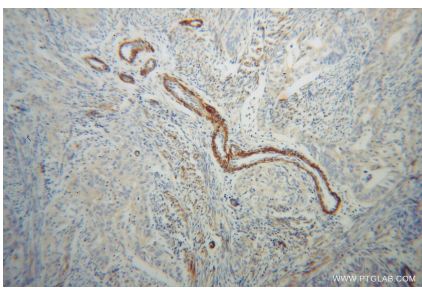
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

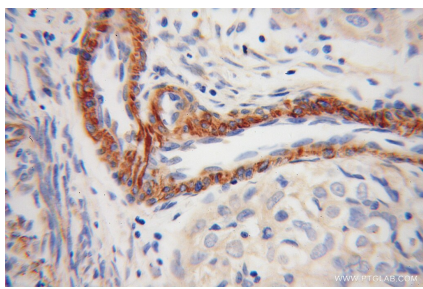
Selected Validation Data



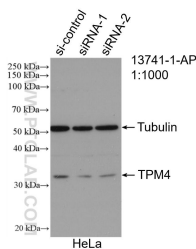
Various lysates were subjected to SDS PAGE followed by western blot with 13741-1-AP (TPM4 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human endometrial cancer using 13741-1-AP (TPM4 antibody) at dilution of 1:100 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human endometrial cancer using 13741-1-AP (TPM4 antibody) at dilution of 1:100 (under 40x lens).



WB result of TPM4 antibody (13741-1-AP; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-TPM4 transfected HeLa cells.