For Research Use Only

## TPM4 Polyclonal antibody Catalog Number:13741-1-AP Featured Product

Featured Product





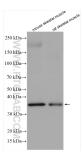
Basic Information	Catalog Number: 13741-1-AP	GenBank Accession Number BC037576	er: Purification Method: Antigen affinity purification
	Size:	GeneID (NCBI):	Recommended Dilutions:
	150ul , Concentration: 1000 ug/ml by Nanodrop; Source: Rabbit Isotype: IgG Immunogen Catalog Number: AG4679		WB 1:500-1:2000 IHC 1:20-1:200
		ENSEMBL Gene ID: ENSG00000167460	Inc 1.20-1.200
		UNIPROT ID: P67936	
		Full Name: tropomyosin 4	
		Calculated MW: 248 aa, 29 kDa	
		Observed MW: 32-35 kDa	
Applications	Tested Applications:	Pos	itive Controls:
	WB, IHC, ELISA Cited Applications:		: mouse skeletal muscle tissue, HeLa cells, rat letal muscle tissue
	WB, IHC		: human endometrial cancer tissue,
	Species Specificity: human, mouse, rat	inc	. human endomeurat cancer tissue,
	Cited Species: human, mouse		
	Note-IHC: suggested antigen r TE buffer pH 9.0; (*) Alternativ retrieval may be performed w buffer pH 6.0	vely, antigen	
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 maju 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 maybe have two isoforms: the short 30-kDa isoform (TPM4.2) and the long 38-kDa isoform (TPM4.1) (PubMed: 28134622).		
Notable Publications	Author Pub	med ID Journal	Application
Notable Publications		med ID Journal 01739 Onco Targe	
Notable Publications	Jingjing Dai 328		ts Ther WB
Notable Publications	Jingjing Dai 328 Linjing Li 333	01739 Onco Targe	ts Ther WB ti WB,IHC
Notable Publications	Jingjing Dai 328 Linjing Li 333	01739 Onco Targe 90785 Int J Med So 39146 Osteoporos er shipment.	ts Ther WB ti WB,IHC
	Jingjing Dai 328 Linjing Li 333 Q Zhou 307 Storage: Store at -20°C. Stable for one year after Storage Buffer:	01739 Onco Targe 90785 Int J Med So 39146 Osteoporos er shipment. % glycerol pH 7.3.	ts Ther WB ti WB,IHC

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

Group brand and is not available to purchase from any other manufacturer.

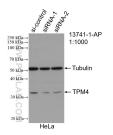
## Selected Validation Data





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