10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

TPM4 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a full length recombinant TPM4.
Catalog # AT4319a

Product Information

Application	WB, IHC, IF, E
Primary Accession	P67936
Other Accession	BC037576
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG1 kappa
Clone Names	4E4-1D2
Calculated MW	28522

Additional Information

Gene ID	7171
Other Names	Tropomyosin alpha-4 chain, TM30p1, Tropomyosin-4, TPM4
Target/Specificity	TPM4 (AAH37576, 1 a.a. ~ 248 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 IHC~~1:100~500 IF~~1:50~200 E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	TPM4 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

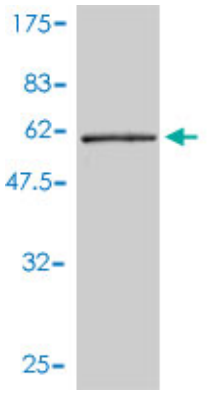
This gene encodes a member of the tropomyosin family of actin-binding proteins involved in the contractile system of striated and smooth muscles and the cytoskeleton of non-muscle cells. Tropomyosins are dimers of coiled-coil proteins that polymerize end-to-end along the major groove in most actin filaments. They provide stability to the filaments and regulate access of other actin-binding proteins. In muscle cells, they regulate muscle contraction by controlling the binding of myosin heads to the actin filament. Multiple transcript variants encoding different isoforms have been found for this gene.

References

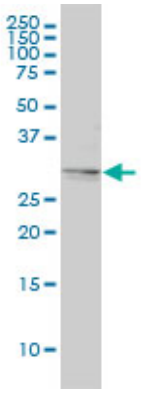
1.LRRK2 guides the actin cytoskeleton at growth cones together with ARHGEF7 and Tropomyosin 4.Habig K,

Gellhaar S, Heim B, Djuric V, Giesert F, Wurst W, Walter C, Hentrich T, Riess O, Bonin MBiochim Biophys Acta. 2013 Sep 24;1832(12):2352-2367.

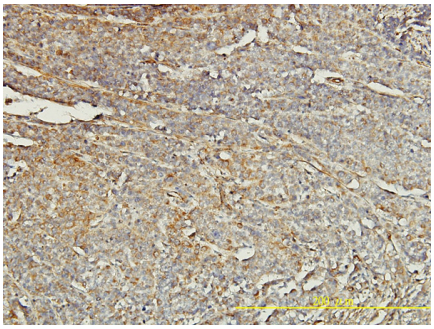
Images



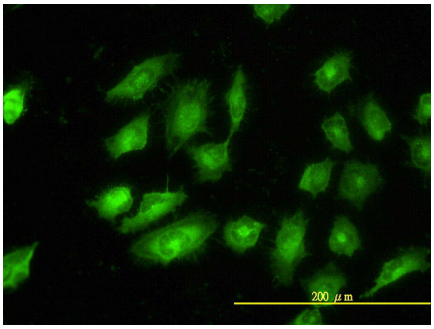
Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (53.02 KDa) .



TPM4 monoclonal antibody (M01), clone 4E4-1D2 Western Blot analysis of TPM4 expression in Hela ((Cat # AT4319a)

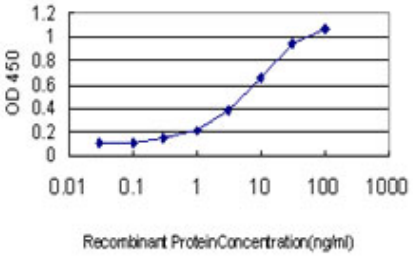


Immunoperoxidase of monoclonal antibody to TPM4 on formalin-fixed paraffin-embedded human transitional cell carcinoma tissue. [antibody concentration 2 ug/ml]



Immunofluorescence of monoclonal antibody to TPM4 on HeLa cell. [antibody concentration 10 ug/ml]

Detection limit for recombinant GST tagged TPM4 is approximately 1ng/ml as a capture antibody.



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