

**TPM4 Antibody (monoclonal) (M01)**

Mouse monoclonal antibody raised against a full length recombinant TPM4.

Catalog # AT4319a

**Specification**

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**TPM4 Antibody (monoclonal) (M01) - Product Information**

Application	WB, IHC, IF, E
Primary Accession	<a href="#">P67936</a>
Other Accession	<a href="#">BC037576</a>
Reactivity	Human
Host	mouse
Clonality	Monoclonal
Isotype	IgG1 kappa
Calculated MW	28522

**TPM4 Antibody (monoclonal) (M01) - 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.

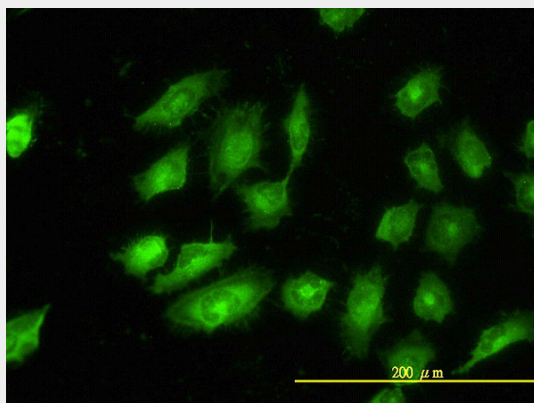
**TPM4 Antibody (monoclonal) (M01) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

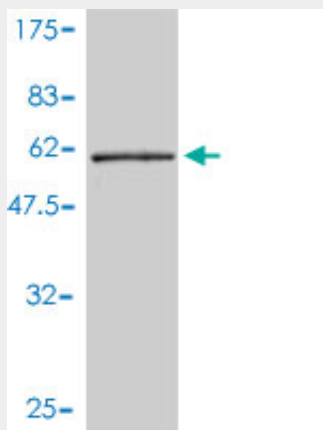
- [Western Blot](#)

- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

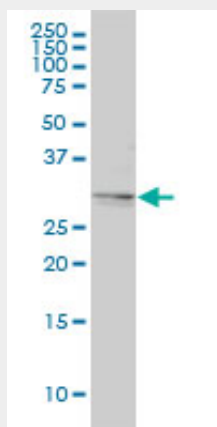
## TPM4 Antibody (monoclonal) (M01) - Images



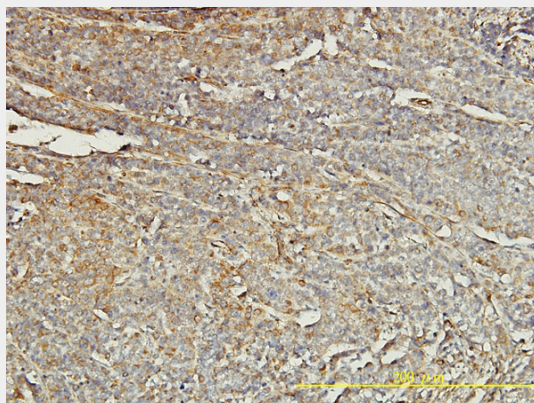
Immunofluorescence of monoclonal antibody to TPM4 on HeLa cell. [antibody concentration 10 ug/ml]



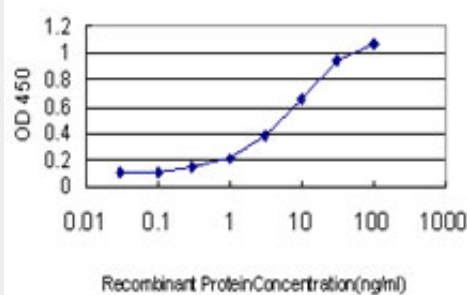
Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (53.02 KDa) .



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]



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

### TPM4 Antibody (monoclonal) (M01) - 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.

### TPM4 Antibody (monoclonal) (M01) - 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.