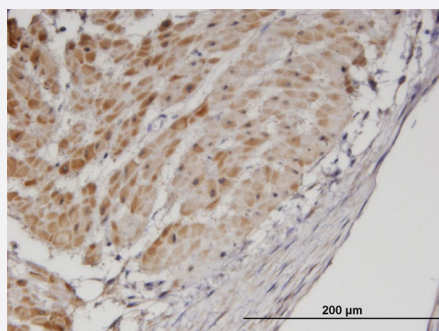


TPM3 monoclonal antibody (M02), clone 2E4

Catalog # H00007170-M02

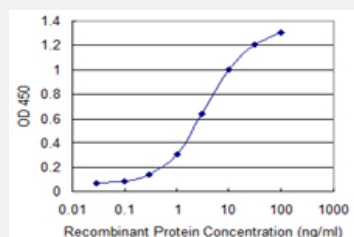
Size 100 ug

Applications



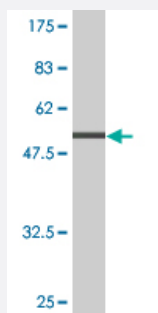
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunoperoxidase of monoclonal antibody to TPM3 on formalin-fixed paraffin-embedded human smooth muscle. [antibody concentration 3 ug/ml]



Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged TPM3 is 0.1 ng/ml as a capture antibody.



Western Blot detection against Immunogen (53.02 KDa) .

Specification

Product Description

Mouse monoclonal antibody raised against a full-length recombinant TPM3.

Immunogen	TPM3 (AAH15403, 1 a.a. ~ 248 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	MAGITTIEAVKRKIQVLQQQADDAEERAERLQREVEGERRAREQAEAEVASLNRRRIQLVEEELDR AQERLATALQKLEEAKEKADESERGMKVNIENRALKDDEKMELQEIQLEAKHIAEEADRKYEEVA RKLVIIEGDLERTEERAELAESRCREMDEQIRLMDQNLKRLSAAEEKYSQKEDKYEGEIKILTDKLLK EAETRAEFAERSVAKLEKTIDDLEDKLLKCTKEEHLCTQRMLDQTLDDLNM
Host	Mouse
Reactivity	Human
Isotype	IgG2a Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (53.02 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunoperoxidase of monoclonal antibody to TPM3 on formalin-fixed paraffin-embedded human smooth muscle. [antibody concentration 3 ug/ml]

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged TPM3 is 0.1 ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

Gene Info — TPM3

Entrez GeneID [7170](#)

GeneBank Accession#	BC015403
Protein Accession#	AAH15403
Gene Name	TPM3
Gene Alias	FLJ41118, MGC14582, MGC3261, MGC72094, NEM1, OK/SW-cl.5, TM-5, TM3, TM30, TM30nm, TPMsk3, TRK, hscp30
Gene Description	tropomyosin 3
Omim ID	161800 191030
Gene Ontology	Hyperlink
Gene Summary	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. Mutations in this gene result in autosomal dominant nemaline myopathy, and oncogenes formed by chromosomal translocations involving this locus are associated with cancer. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq]
Other Designations	OTTHUMP00000034019 OTTHUMP00000034171 OTTHUMP00000034172 cytoskeletal tropomyosin TM30 heat-stable cytoskeletal protein 30 kDa tropomyosin alpha-3 chain tropomyosin gamma

Publication Reference

- [The QKI-6 RNA Binding Protein Regulates Actin-interacting Protein-1 mRNA Stability during Oligodendrocyte Differentiation.](#)

Doukhanine E, Gavino C, Haines JD, Almazan G, Richard S.

Molecular Biology of the Cell 2010 Jul; 21(17):3029.

Application: WB, Human, CRL2020 cells

Pathway

- [Cardiac muscle contraction](#)
- [Hypertrophic cardiomyopathy \(HCM\)](#)
- [Pathways in cancer](#)
- [Thyroid cancer](#)

Disease

- [Myopathies](#)