TPM1 mouse monoclonal antibody (hybridoma)

Catalog # H00007168-M Size Up to 5 Clones

Specification

Product Description	Mouse monoclonal antibody raised against a full-length recombinant TPM1.
Immunogen	TPM1 (NP_001018008.1, 1 a.a. ~ 245 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	MAGSSSLEAVRRKIRSLQEQADAAEERAGTLQRELDHERKLRETAEADVASLNRRIQLVEEELDR AQERLATALQKLEEAEKAADESERGMKVIESRAQKDEEKMEIQEIQLKEAKHIAEDADRKYEEVA RKLVIIESDLERAEERAELSEGKCAELEEELKTVTNNLKSLEAQAEKYSQKEDRYEEEIKVLSDKL KEAETRAEFAERSVTKLEKSIDDLEDQLYQQLEQNRRLTNELKLALNED
Host	Mouse
Reactivity	Human
Quality Control Testing	Antibody reactivity and specificity confirmed by ELISA and Western Blot.
Deliverables	Up to 5 positive hybridoma clones will be delivered to customer in the cryotube format.
Note	Customer should check the viability of the hybridomas within one month from the date of receipt. Fee -for-service of long term hybridoma storage can be performed upon customer's request.

Applications

- Western Blot (Transfected lysate)

  Protocol Download

- Western Blot (Recombinant protein)

  Protocol Download

- ELISA

Gene Info — TPM1

Entrez GeneID	7168
GeneBank Accession#	NM_001018008.1
Protein Accession#	NP_001018008.1
Gene Name	TPM1
Gene Alias	C15orf13, CMD1Y, HTM-alpha, TMSA
Gene Description	tropomyosin 1 (alpha)
Omim ID	115196 191010
Gene Ontology	Hyperlink
Gene Summary	This gene is a member of the tropomyosin family of highly conserved, widely distributed actin-binding proteins involved in the contractile system of striated and smooth muscles and the cytoskeleton of non-muscle cells. Tropomyosin is composed of two alpha-helical chains arranged as a coiled-coil. It is polymerized end to end along the two grooves of actin filaments and provides stability to the filaments. The encoded protein is one type of alpha helical chain that forms the predominant tropomyosin of striated muscle, where it also functions in association with the troponin complex to regulate the calcium-dependent interaction of actin and myosin during muscle contraction. In smooth muscle and non-muscle cells, alternatively spliced transcript variants encoding a range of isoforms have been described. Mutations in this gene are associated with type 3 familial hypertrophic cardiomyopathy. [provided by RefSeq
Other Designations	alpha tropomyosin|cardiomyopathy, hypertrophic 3|sarcomeric tropomyosin kappa|tropomyosin 1 alpha chain

Pathway

- Cardiac muscle contraction
- Hypertrophic cardiomyopathy (HCM)

Disease

- Cardiomegaly
- Cardiomyopathy
- Cardiovascular Diseases

- Diabetes Mellitus
- Disease Progression
- Edema
- Genetic Predisposition to Disease
- Metabolic Syndrome X
- Tobacco Use Disorder