

TNNI2 Antibody

Purified Mouse Monoclonal Antibody Catalog # AO1626a

Product Information

Application Primary Accession Reactivity Host Clonality Clone Names Isotype Calculated MW Description	 WB, IHC, FC, E P48788 Human Mouse Monoclonal 2F12A11 IgG1 21339 This gene encodes a fast-twitch skeletal muscle protein, a member of the troponin I gene family, and a component of the troponin complex including troponin T, troponin C and troponin I subunits. The troponin complex, along with tropomyosin, is responsible for the calcium-dependent regulation of striated muscle contraction. Mouse studies show that this component is also present in vascular smooth muscle and may play a role in regulation of smooth muscle function. In addition to muscle tissues, this protein is found in corneal epithelium, cartilage where it is an inhibitor of angiogenesis to inhibit tumor growth and metastasis, and mammary gland where it functions as a co-activator of estrogen receptor-related receptor alpha. This protein also suppresses tumor growth in human ovarian carcinoma. Mutations in this gene cause myopathy and distal arthrogryposis type 2B. Alternatively spliced transcript variants have been found for this gene.
Immunogen	Purified recombinant fragment of human TNNI2 expressed in E. Coli.
Formulation	Ascitic fluid containing 0.03% sodium azide.

Additional Information

Gene ID	7136
Other Names	Troponin I, fast skeletal muscle, Troponin I, fast-twitch isoform, TNNI2
Dilution	WB~~1/500 - 1/2000 IHC~~1/200 - 1/1000 FC~~1/200 - 1/400 E~~1/10000
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	TNNI2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name

Function

Troponin I is the inhibitory subunit of troponin, the thin filament regulatory complex which confers calcium-sensitivity to striated muscle actomyosin ATPase activity.

References

1. Am J Hum Genet. 2009 Nov;85(5):628-42. 2. Cell Motil Cytoskeleton. 2008 Aug;65(8):652-61.

TNNI2

Images





Figure 5: Immunohistochemical analysis of paraffin-embedded striated muscle tissues using TNNI2 mouse mAb with DAB staining.

Figure 6: Flow cytometric analysis of NIH/3T3 cells using TNNI2 mouse mAb (blue) and negative control (red).

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