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Product datasheet for AM06710PU-N

Troponin I fast skeletal muscle (TNNI2) Mouse Monoclonal Antibody [Clone ID: 2F12G2]

Product data:

Product Type:	Primary Antibodies
Clone Name:	2F12G2
Applications:	ELISA, FC, IF, IHC, WB
Recommended Dilution:	**Western Blot**: 1/500-1/2000. **Immunofluorescence**: 1/200-1/1000. **Flow Cytometry:** 1/200-1/400. **ELISA**: 1/10000. **Immunohistochemistry on Paraffin Sections:** 10 µg/ml.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Purified recombinant fragment of Human TNNI2 expressed in E. Coli.
Specificity:	This antibody recognizes Human TNNI2. Other species not tested.
Formulation:	PBS State: Purified State: Liquid purified antibody Stabilizer: 0.5% protein stabilizer Preservative: 0.05% Sodium Azide
Concentration:	lot specific
Purification:	Protein G Chromatography
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	21 kDa
Gene Name:	troponin I2, fast skeletal type

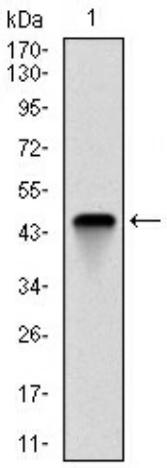
View online »

Database Link: Entrez Gene 7136 Human
P48788

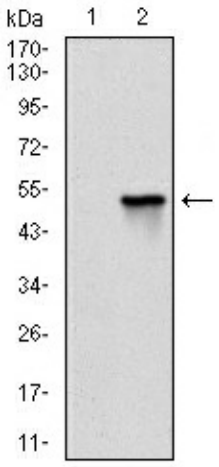
Background: This gene encodes a fast-twitch skeletal muscle protein, a member of the troponin I gene family, and a component of the troponin complex including troponin T, troponin C and troponin I subunits. The troponin complex, along with tropomyosin, is responsible for the calcium-dependent regulation 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.

Synonyms: TNNI2

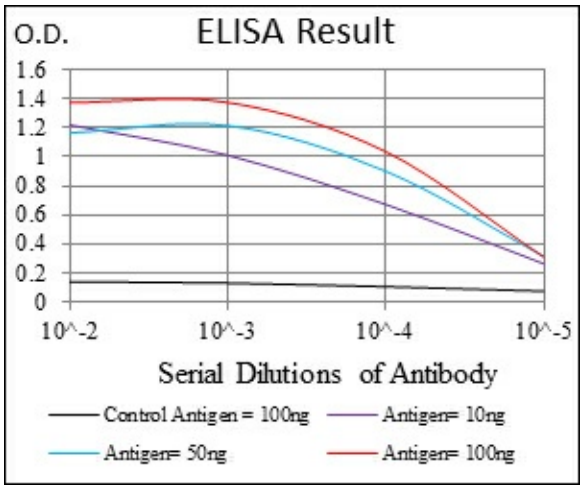
Product images:



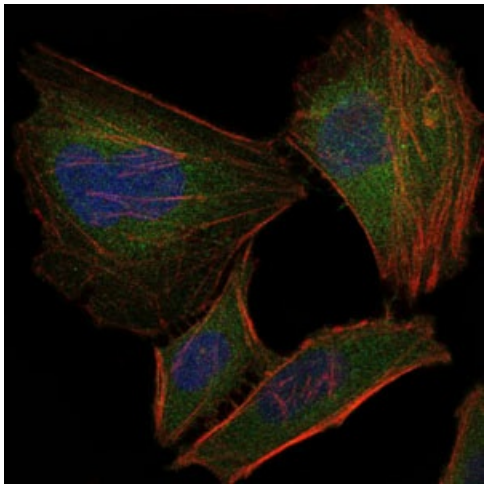
Western blot analysis using TNNI2 mAb against human TNNI2 (AA: 1-182) recombinant protein. (Expected MW is 21 kDa)



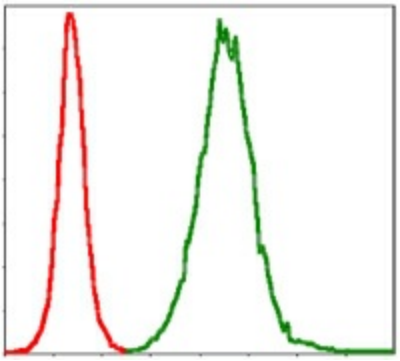
Western blot analysis using TNNI2 mAb against HEK293 (1) and TNNI2 (AA: 1-182)-hIgGFc transfected HEK293 (2) cell lysate.



Red: Control Antigen (100ng) Purple: Antigen (10ng) Green: Antigen (50ng) Blue: Antigen (100ng)



Immunofluorescence analysis of Hela cells using TNNI2 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.



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