Product Name: TNNI2 Mouse Monoclonal Antibody
Catalog #: AMM81047
For research use only.

Summary

Description	Mouse monoclonal Antibody
Host	Mouse
Application	IHC,ELISA,FC
Reactivity	Human
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG1
Clonality	Monoclonal
Form	Liquid
Concentration	1mg/ml
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	PBS containing 0.03% sodium azide.
Purification	Affinity Purification

Application

Dilution Ratio	IHC 1:200-1:1000,ELISA 1:5000-1:20000,FC 1:200-1:400
Molecular Weight	21kDa

Antigen Information

Gene Name	TNNI2
Alternative Names	DA2B; FSSV; fsTnI; AMCD2B
Gene ID	7136.0
SwissProt ID	P48788
Immunogen	Purified recombinant fragment of human TNNI2 expressed in E. Coli.

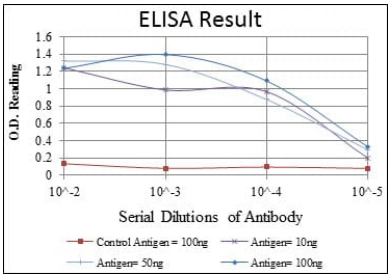
Background

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

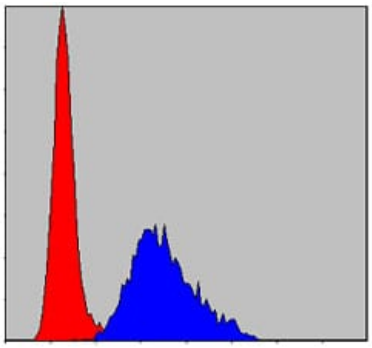
also present in vascular smooth muscle and may play a role in regulation of smooth muscle function. In addition to muscle tissues, this protein is found in corneal epithelium, cartilage where it is an inhibitor of angiogenesis to inhibit tumor growth and metastasis, and mammary gland where it functions 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.

Research Area

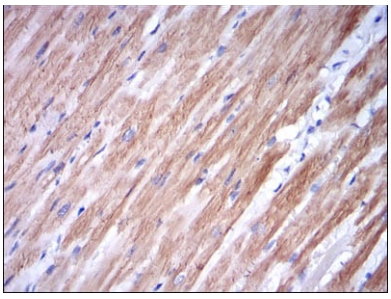
Image Data



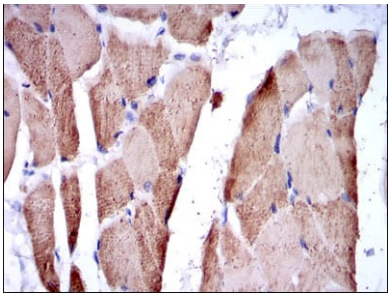
Red: Control Antigen (100ng); Purple: Antigen (10ng); Green: Antigen (50ng); Blue: Antigen (100ng);



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



Immunohistochemical analysis of paraffin-embedded human cardiac muscle tissues using TNNI2 mouse mAb with DAB staining.



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