

TNNI2 Monoclonal Antibody

Description

Product type	Antibody
Code	BT-MCA3616
Host	Mouse
Isotype	Mouse IgG1
Size	100µL, 50µL
Immunogen	Purified recombinant fragment of human TNNI2 expressed in E. Coli.
Mol wt	21kDa
Species reactivity	Human
Clonality	Monoclonal
Recommended application	IHC,FCM
Concentration	N/A
Full name	N/A
Synonyms	DA2B;FSSV;fsTnI;AMCD2B

This product is for research use only, not for use in human, therapeutic or diagnostic procedure.

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 arthrogyrosis type 2B. Alternatively spliced transcript variants have been found for this gene.

Recommended Dilution

WB: 1:500 - 1:2000

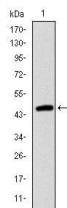
IHC-p: 1:200 - 1:1000

FCM: 1:200 - 1:400

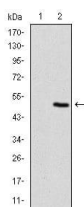
ELISA: 1:10000

Not yet tested in other applications.

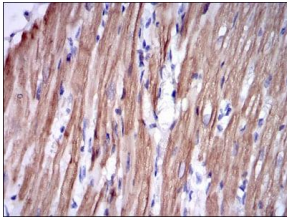
Images



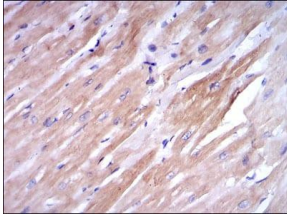
Western blot analysis using TNNI2 mAb against human TNNI2 (AA: 1-182) recombinant protein.
(Expected MW is 46.8 kDa)



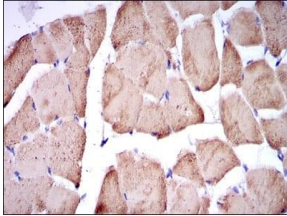
Western blot analysis using TNNI2 mAb against HEK293 (1) and TNNI2(AA: 1-182)-hIgGfc transfected HEK293 (2) cell lysate.



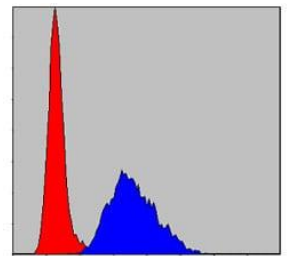
Immunohistochemical analysis of paraffin-embedded rabbit cardiac muscle tissues using TNNI2 mouse mAb with DAB staining.



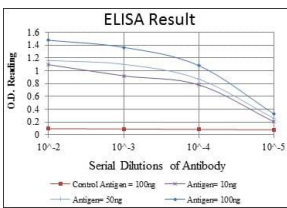
Immunohistochemical analysis of paraffin-embedded cardiac muscle tissues using TNNI2 mouse mAb with DAB staining.



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



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



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

Storage

Store at 4°C short term. Aliquot and store at -20°C long term.

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