

Product datasheet for **AM06686SU-N**

Troponin I fast skeletal muscle (TNNI2) Mouse Monoclonal Antibody [Clone ID: 2F12A11]

Product data:

Product Type:	Primary Antibodies
Clone Name:	2F12A11
Applications:	ELISA, FC, IHC, WB
Recommended Dilution:	ELISA: 1/10000. Western Blot: 1/500 - 1/2000. Flow Cytometry: 1/200 - 1/400. Immunohistochemistry on Paraffin Sections: 1/200 - 1/1000.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Purified recombinant fragment of Human TNNI2 expressed in E. Coli.
Specificity:	Recognizes Fast skeletal muscle Troponin I (TNNI2).
Formulation:	State: Ascites State: Ascitic fluid containing 0.03% Sodium Azide.
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
Database Link:	Entrez Gene 7136 Human P48788



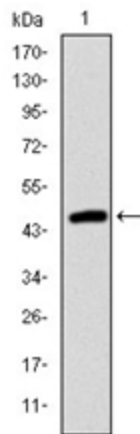
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Background:

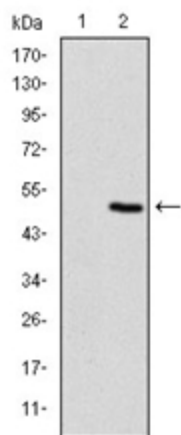
This gene encodes a fast-twitch skeletal muscle protein, a member of the troponin I gene family, and a component of the troponin complex including troponin T, troponin C and troponin I subunits. The troponin complex, along with tropomyosin, is responsible for the calcium-dependent regulation of striated 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 arthrogyposis type 2B. Alternatively spliced transcript variants have been found for this gene.

Synonyms:

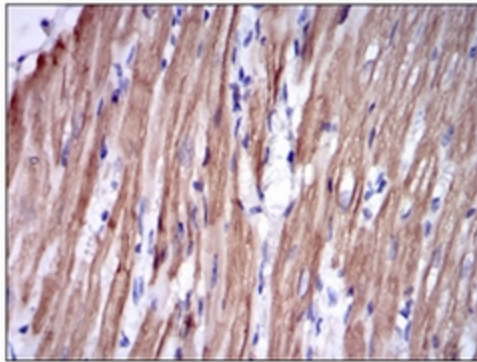
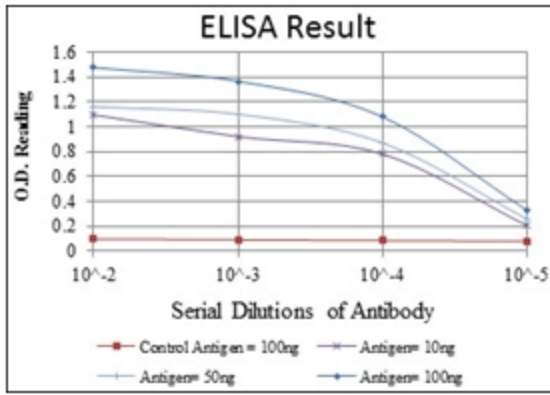
TNNI2

Product images:

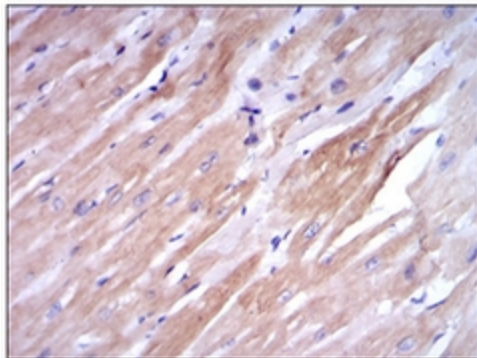
Western blot analysis using TNNI2 antibody Cat.-No AM06686SU-N against human TNNI2 (AA: 1-182) recombinant protein (Expected MW is 46.8 kDa)



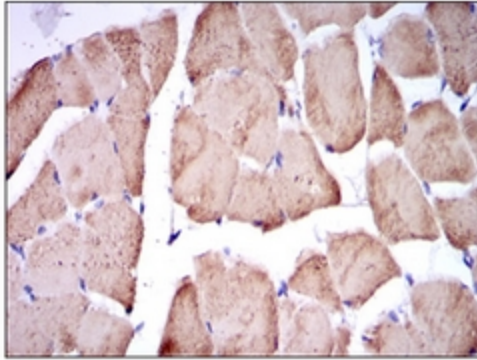
Western blot analysis using TNNI2 antibody Cat.-No AM06686SU-N against HEK293 (1) and TNNI2 (AA: 1-182)-hIgGfC transfected HEK293 (2) cell lysate.



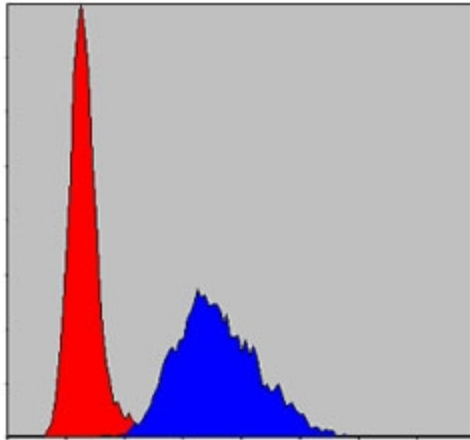
Immunohistochemical analysis of paraffin-embedded Rabbit cardiac muscle tissues using TNNI2 antibody Cat.-No AM06686SU-N with DAB staining.



Immunohistochemical analysis of paraffin-embedded cardiac muscle tissues using TNNI2 antibody Cat.-No AM06686SU-N with DAB staining.



Immunohistochemical analysis of paraffin-embedded striated muscle tissues using TNNI2 antibody Cat.-No AM06686SU-N with DAB staining.



Flow cytometric analysis of NIH/3T3 cells using TNNI2 antibody Cat.-No AM06686SU-N (blue) and negative control (red).