

## Product datasheet for **AM06688SU-N**

### Troponin I fast skeletal muscle (TNNI2) Mouse Monoclonal Antibody [Clone ID: 2F12A8]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	2F12A8
Applications:	ELISA, FC, IHC, WB
Recommended Dilution:	<b>Western Blot:</b> 1/500 - 1/2000. <b>Immunohistochemistry on paraffin sections:</b> 1/200 - 1/1000. <b>Flow cytometry:</b> 1/200 - 1/400. <b>ELISA:</b> 1/10000.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Purified recombinant fragment of human TNNI2 expressed in E. Coli.
Specificity:	This antibody reacts to 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:	<a href="#">Entrez Gene 7136 Human P48788</a>



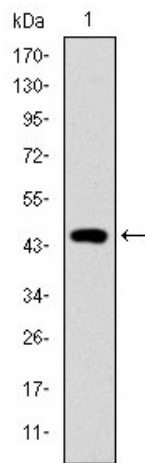
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**Background:**

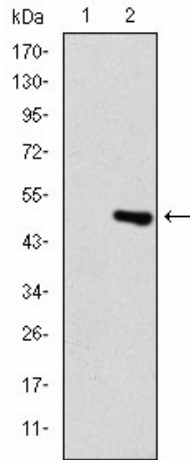
This gene encodes a fast-twitch skeletal muscle protein, a member of the troponin I gene family, and a component of the troponin complex including troponin T, troponin C and troponin I subunits. The troponin complex, along with tropomyosin, is responsible for the calcium-dependent regulation of striated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

**Synonyms:**

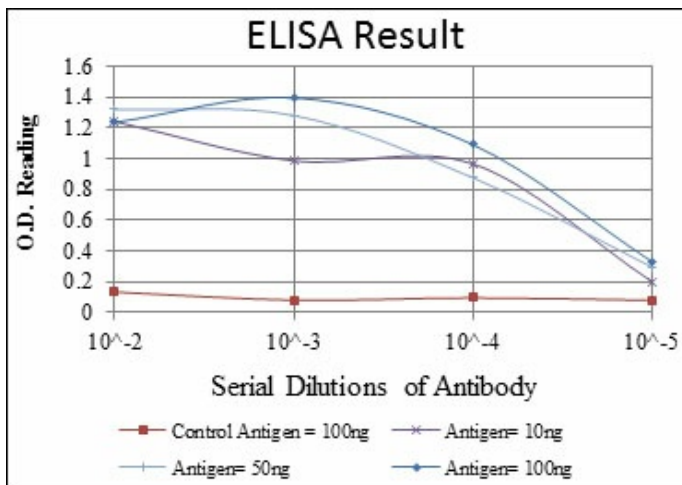
TNNI2

**Product images:**

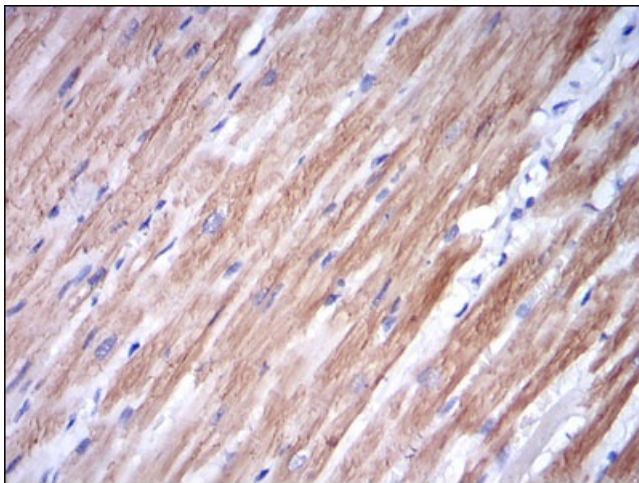
Western blot analysis using TNNI2 mAb against human TNNI2 (AA: 1-182) recombinant protein. (Expected MW is 46.8 kDa)



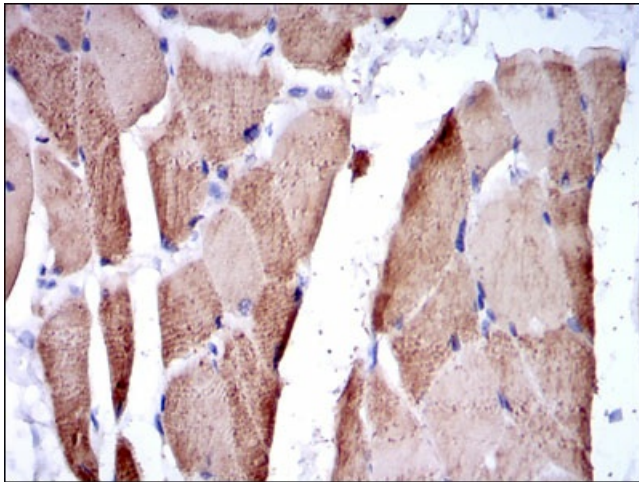
Western blot analysis using TNNI2 mAb against HEK293 (1) and TNNI2 (AA: 1-182)-hlgGfc transfected HEK293 (2) cell lysate.



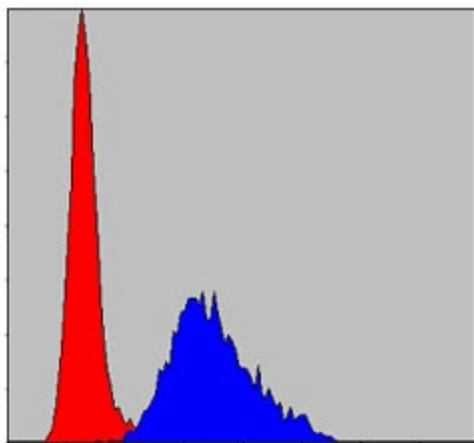
Red: Control Antigen (100ng) Purple: Antigen (10ng) Green: Antigen (50ng) Blue: Antigen (100ng)



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).