



Troponin I-FS Monoclonal Antibody

Catalog No	YP-Ab-02944
Isotype	IgG
Reactivity	Human
Applications	WB;IHC;IF;FCM;ELISA
Gene Name	TNNI2
Protein Name	Troponin I fast skeletal muscle
Immunogen	Purified recombinant fragment of human Troponin I-FS expressed in E. Coli.
Specificity	Troponin I-FS Monoclonal Antibody detects endogenous levels of Troponin I-FS protein.
Formulation	Ascitic fluid containing 0.03% sodium azide,0.5% BSA, 50%glycerol.
Source	Monoclonal, Mouse
Purification	Affinity purification
Dilution	WB: 1/500 - 1/2000. IHC: 1/200 - 1/1000. Flow cytometry: 1/200 - 1/400. ELISA: 1/10000.. IF 1:50-200
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	TNNI2; Troponin I; fast skeletal muscle; Troponin I, fast-twitch isoform
Observed Band	
Cell Pathway	nucleus,cytosol,troponin complex,
Tissue Specificity	Muscle,Skeletal muscle,
Function	caution:The sequence shown here is derived from an Ensembl automatic analysis pipeline and should be considered as preliminary data.,disease:Defects in TNNI2 are a cause of distal arthrogryposis type 2B (DA2B) [MIM:601680]; also known as arthrogryposis multiplex congenita, distal, type 2B (AMCD2B). DA2B is a form of inherited multiple congenital contractures. Affected individuals have vertical talus, ulnar deviation in the hands, severe camptodactyly, and a distinctive face characterized by a triangular shape, prominent nasolabial folds, small mouth and a prominent chin.,function:Troponin I is the inhibitory subunit of troponin, the thin filament regulatory complex which confers calcium-sensitivity to striated muscle actomyosin ATPase activity.,similarity:Belongs to the troponin I family.,subunit:Binds to actin and tropomyosin.,
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 trans

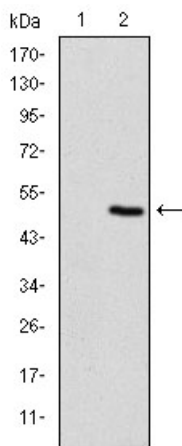
matters needing attention

Avoid repeated freezing and thawing!

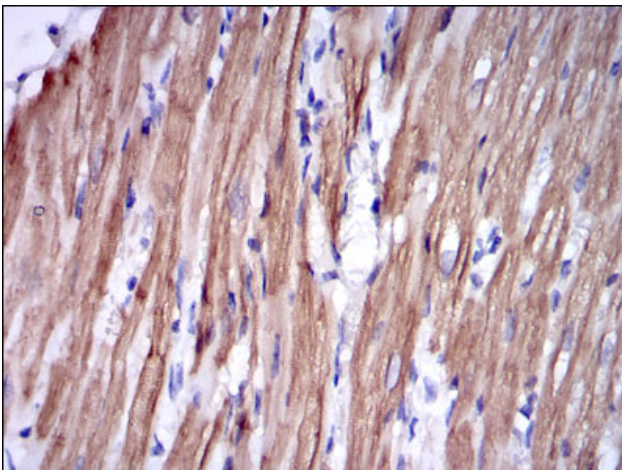
Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

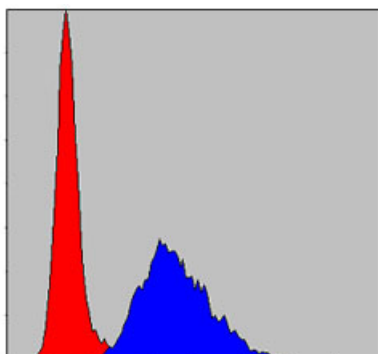
Products Images



Western Blot analysis using Troponin I-FS Monoclonal Antibody against HEK293 (1) and TNNI2-hlgGfC transfected HEK293 (2) cell lysate.



Immunohistochemistry analysis of paraffin-embedded rabbit cardiac muscle tissues with DAB staining using Troponin I-FS Monoclonal Antibody.



Flow cytometric analysis of NIH/3T3 cells using Troponin I-FS Monoclonal Antibody (blue) and negative control (red).

