

ARG41149 anti-TNNI2 antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes TNNI2
Tested Reactivity	Hu, Ms, Rat
Tested Application	FACS, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	TNNI2
Species	Human
Immunogen	Recombinant protein corresponding to D3-S182 of Human TNNI2.
Conjugation	Un-conjugated
Alternate Names	FSSV; Troponin I, fast-twitch isoform; AMCD2B; fsTnl; Troponin I, fast skeletal muscle; DA2B

Application Instructions

Application table	Application	Dilution
	FACS	1:150 - 1:500
	IHC-P	1:200 - 1:1000
	WB	1:500 - 1:2000
Application Note	IHC-P: Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0) for 20 min. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

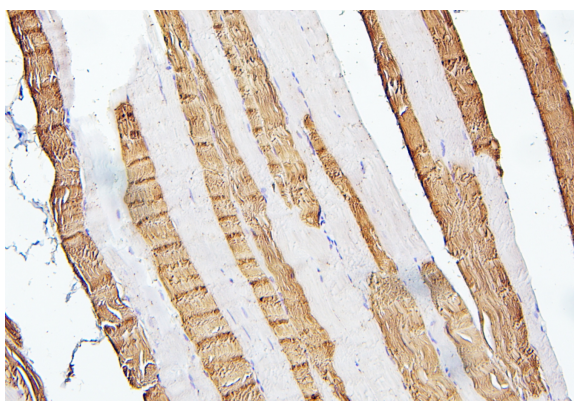
Properties

Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	0.2% Na ₂ HPO ₄ , 0.9% NaCl, 0.05% Sodium azide and 4% Trehalose.
Preservative	0.05% Sodium azide
Stabilizer	4% Trehalose
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Bioinformation

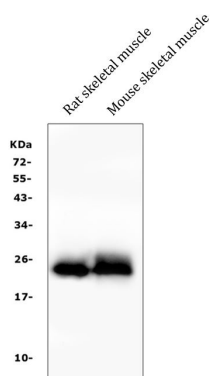
Gene Symbol	TNNI2
Gene Full Name	troponin I type 2 (skeletal, fast)
Background	<p>This gene encodes a fast-twitch skeletal muscle protein, a member of the troponin I gene family, and a component of the troponin complex including troponin T, troponin C and troponin I subunits. The troponin complex, along 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. [provided by RefSeq, Mar 2009]</p>
Function	<p>Troponin I is the inhibitory subunit of troponin, the thin filament regulatory complex which confers calcium-sensitivity to striated muscle actomyosin ATPase activity. [UniProt]</p>
Calculated Mw	21 kDa

Images



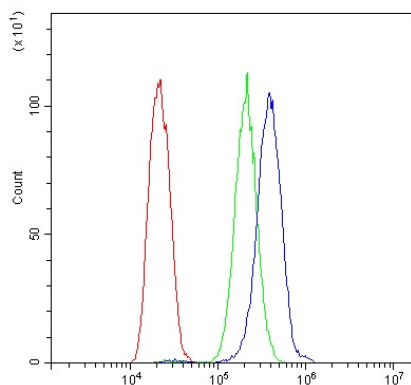
ARG41149 anti-TNNI2 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human skeletal muscle tissue. Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0, epitope retrieval solution) for 20 min. The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG41149 anti-TNNI2 antibody at 1 µg/ml, overnight at 4°C.



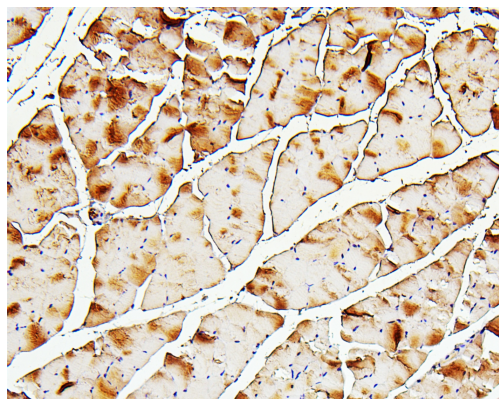
ARG41149 anti-TNNI2 antibody WB image

Western blot: 50 µg of Rat skeletal muscle and Mouse skeletal muscle lysates stained with ARG41149 anti-TNNI2 antibody at 0.5 µg/ml, overnight at 4°C.



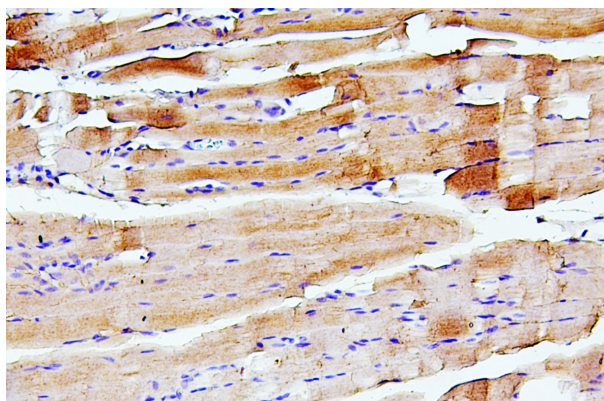
ARG41149 anti-TNNI2 antibody FACS image

Flow Cytometry: HepG2 cells were blocked with 10% normal goat serum and then stained with ARG41149 anti-TNNI2 antibody (blue) at $1\text{ }\mu\text{g}/10^6$ cells for 30 min at 20°C , followed by incubation with DyLight®488 labelled secondary antibody. Isotype control antibody (green) was rabbit IgG ($1\text{ }\mu\text{g}/10^6$ cells) used under the same conditions. Unlabelled sample (red) was also used as a control.



ARG41149 anti-TNNI2 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Mouse skeletal muscle tissue. Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0, epitope retrieval solution) for 20 min. The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG41149 anti-TNNI2 antibody at $1\text{ }\mu\text{g}/\text{ml}$, overnight at 4°C .



ARG41149 anti-TNNI2 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Rat skeletal muscle tissues. Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0, epitope retrieval solution) for 20 min. The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG41149 anti-TNNI2 antibody at $1\text{ }\mu\text{g}/\text{ml}$, overnight at 4°C .