

## Troponin I-FS Monoclonal Antibody

### Description

<b>Product type</b>	Primary Antibody
<b>Code</b>	BT-MCA1237
<b>Host</b>	Mouse
<b>Isotype</b>	IgG
<b>Size</b>	50ul, 100ul
<b>Immunogen</b>	Purified recombinant fragment of human Troponin I-FS expressed in E. Coli.
<b>Mol wt</b>	N/A
<b>Species reactivity</b>	Human
<b>Clonality</b>	Monoclonal
<b>Recommended application</b>	WB, IHC-p, IF, FCM, ELISA
<b>Concentration</b>	1 mg/ml
<b>Full name</b>	Troponin I fast skeletal muscle
<b>Synonyms</b>	TNNI2; Troponin I; fast skeletal muscle; Troponin I; fast-twitch isoform

**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 arthrogryposis type 2B. Alternatively spliced trans

### Recommended Dilution

ELISA: 1:10000

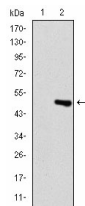
FC: 1:200 - 1:400

IHC: 1:200 - 1:1000

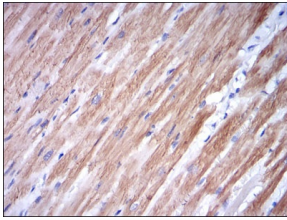
WB: 1:500 - 1:2000

Not yet tested in other applications.

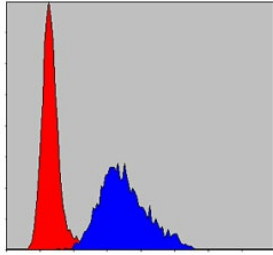
### Images



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



Immunohistochemistry analysis of paraffin-embedded 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).

### Storage

-20°C for one year

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