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troponin T2 Antibody

Purified Mouse Monoclonal Antibody
Catalog # AO1711a

Product Information

Application	WB, FC, E
Primary Accession	P45379
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	1G1
Isotype	IgG1
Calculated MW	35924
Description	The protein encoded by this gene is the tropomyosin-binding subunit of the troponin complex, which is located on the thin filament of striated muscles and regulates muscle contraction in response to alterations in intracellular calcium ion concentration. Mutations in this gene have been associated with familial hypertrophic cardiomyopathy as well as with dilated cardiomyopathy. Transcripts for this gene undergo alternative splicing that results in many tissue-specific isoforms, however, the full-length nature of some of these variants has not yet been determined.
Immunogen	Purified recombinant fragment of human troponin T2 expressed in E. Coli.
Formulation	Ascitic fluid containing 0.03% sodium azide.

Additional Information

Gene ID	7139
Other Names	Troponin T, cardiac muscle, TnTc, Cardiac muscle troponin T, cTnT, TNNT2
Dilution	WB~~1/500 - 1/2000 FC~~1/200 - 1/400 E~~1/10000
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	troponin T2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	TNNT2

Function	Troponin T is the tropomyosin-binding subunit of troponin, the thin filament regulatory complex which confers calcium-sensitivity to striated muscle actomyosin ATPase activity.
Tissue Location	Heart. The fetal heart shows a greater expression in the atrium than in the ventricle, while the adult heart shows a greater expression in the ventricle than in the atrium. Isoform 6 predominates in normal adult heart. Isoforms 1, 7 and 8 are expressed in fetal heart. Isoform 7 is also expressed in failing adult heart

References

Cardiovasc Res. 2010 Jun 1;86(3):452-60. Circ Cardiovasc Genet. 2009 Aug;2(4):306-13.

Images

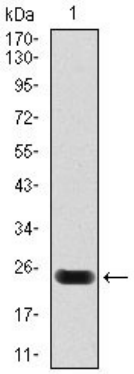

Figure 1: Western blot analysis using troponin T2 mAb against human troponin T2 (AA: 88-249) recombinant protein. (Expected MW is 25.1 kDa)

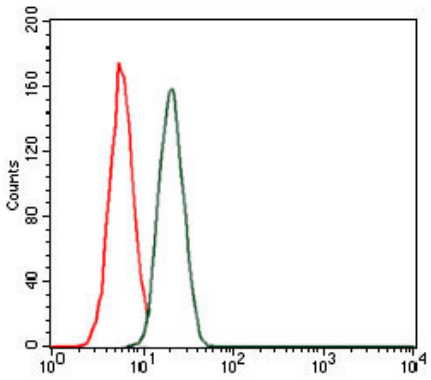

Figure 2: Flow cytometric analysis of MCF-7 cells using troponin T2 mouse mAb (green) and negative control (red).