

## Product datasheet for **CF807853**

### Troponin I fast skeletal muscle (TNNI2) Mouse Monoclonal Antibody [Clone ID: OTI3A11]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI3A11
Applications:	IHC, WB
Recommended Dilution:	WB 1:2000, IHC 1:150
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG2b
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human TNNI2 (NP_003273) produced in E.coli.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	21.2 kDa
Gene Name:	troponin I2, fast skeletal type
Database Link:	<a href="#">NP_003273</a> <a href="#">Entrez Gene 21953 Mouse</a> <a href="#">Entrez Gene 29389 Rat</a> <a href="#">Entrez Gene 7136 Human</a> <a href="#">P48788</a>



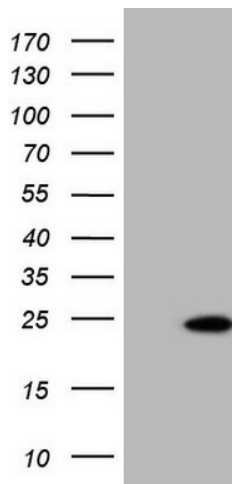
[View online »](#)

**Background:**

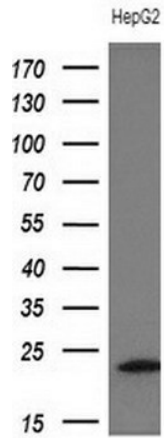
This gene encodes a fast-twitch skeletal muscle protein, a member of the troponin I gene family, and a component of the troponin complex including troponin T, troponin C and troponin I subunits. The troponin complex, along with tropomyosin, is responsible for the calcium-dependent regulation of striated 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. [provided by RefSeq, Mar 2009]

**Synonyms:**

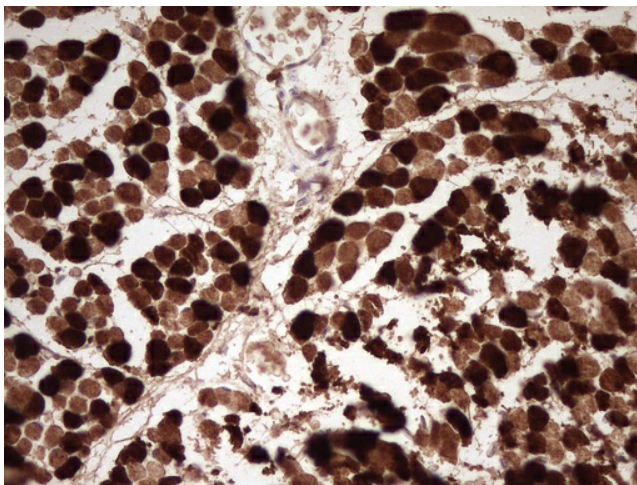
AMCD2B; DA2B; FSSV; fsTnl

**Product images:**

HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY TNNI2 (Cat# [RC205676], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-TNNI2(Cat# [TA807853]). Positive lysates [LY418789] (100ug) and [LC418789] (20ug) can be purchased separately from OriGene.



Western blot analysis of extracts (10ug) from 1 cell line by using anti-TNNI2 monoclonal antibody at 1:200 dilution.



Immunohistochemical staining of paraffin-embedded Human muscle tissue using anti-TNNI2 mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris, pH8.5, 120°C for 3min, [TA807853])