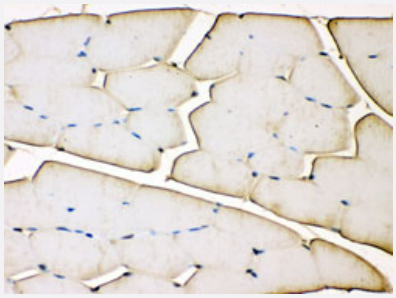
Troponin T monoclonal antibody, clone JLT-12

Catalog # MAB12454 Size 100 ug

Applications



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining of rat skeletal muscle tissue with Troponin T monoclonal antibody, clone JLT-12 (Cat# MAB12454) under 4-8 ug/mL working concentration.

Specification

Product Description	Mouse monoclonal antibody raised against full length native of rabbit troponin T.
Immunogen	Native purified troponin T from rabbit skeletal muscle.
Host	Mouse
Reactivity	Chicken, Rabbit, Rat
Form	Lyophilized
Isotype	IgG1
Recommend Usage	Immunohistochemistry (4-8 ug/mL) Western Blot (2-4 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	Lyophilized from ascites fluid (1.2 % sodium acetate, 2 mg BSA, 0.01 mg sodium azide)
Storage Instruction	Store at -20°C. After reconstitution with 1 mL of 1.2% sodium acetate or neutral PBS and concentration will be 100 u g/mL, store at -20°C. Aliquot to avoid repeated freezing and thawing.

Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Western Blot
- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

  Immunohistochemical staining of rat skeletal muscle tissue with Troponin T monoclonal antibody, clone JLT-12 (Cat# MAB12454) under 4-8 ug/mL working concentration.
- Immunohistochemistry (Frozen sections)

Gene Info — TNNT1

Entrez GeneID	7138
Gene Name	TNNT1
Gene Alias	ANM, FLJ98147, MGC104241, STNT, TNT, TNTS
Gene Description	troponin T type 1 (skeletal, slow)
Omim ID	191041 605355
Gene Ontology	Hyperlink
Gene Summary	This gene encodes a protein that is a subunit of troponin, which is a regulatory complex located o n the thin filament of the sarcomere. This complex regulates striated muscle contraction in respon se to fluctuations in intracellular calcium concentration. This complex is composed of three subunit s: troponin C, which binds calcium, troponin T, which binds tropomyosin, and troponin I, which is a n inhibitory subunit. This protein is the slow skeletal troponin T subunit. Mutations in this gene caus e nemaline myopathy type 5, also known as Amish nemaline myopathy, a neuromuscular disorder characterized by muscle weakness and rod-shaped, or nemaline, inclusions in skeletal muscle fib ers which affects infants, resulting in death due to respiratory insufficiency, usually in the second y ear. Multiple transcript variants encoding different isoforms have been found for this gene. [provid ed by RefSeq
Other Designations	slow skeletal muscle troponin T|troponin T1, skeletal, slow|troponin-T1, skeletal, slow

Gene Info — TNNT2

Entrez GeneID	7139

Gene Name	TNNT2
Gene Alias	CMH2, CMPD2, MGC3889, RCM3, TnTC, cTnT
Gene Description	troponin T type 2 (cardiac)
Omim ID	115195 191045 601494
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is the tropomyosin-binding subunit of the troponin complex, whi ch 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 associat ed with familial hypertrophic cardiomyopathy as well as with dilated cardiomyopathy. Transcripts f or this gene undergo alternative splicing that results in many tissue-specific isoforms, however, th e full-length nature of some of these variants has not yet been determined. [provided by RefSeq
Other Designations	OTTHUMP00000033864|OTTHUMP00000033867|cardiomyopathy, dilated 1D (autosomal domi nant)|cardiomyopathy, hypertrophic 2|troponin T type 2, cardiac|troponin T, cardiac muscle|troponi n T2, cardiac

Gene Info — TNNT3

Entrez GeneID	7140
Gene Name	TNNT3
Gene Alias	AMCD2B, DA2B, DKFZp779M2348, FSSV
Gene Description	troponin T type 3 (skeletal, fast)
Omim ID	600692 601680
Gene Ontology	Hyperlink
Gene Summary	O
Other Designations	OTTHUMP00000014433|OTTHUMP00000014434|OTTHUMP00000014435|troponin T3, skeleta l, fast|troponin-T3, skeletal, fast

Pathway

- Cardiac muscle contraction
- Hypertrophic cardiomyopathy (HCM)

Disease

- Arthrogryposis
- Cardiomegaly
- Cardiomyopathies
- Cardiomyopathy
- Cardiovascular Diseases
- Cardiovascular Diseases
- Cardiovascular Diseases
- Cleft Lip
- Cleft Palate
- Clubfoot
- Death
- Diabetes Mellitus
- Diabetes Mellitus
- Diabetes Mellitus
- Disease Progression
- Edema
- Edema
- Edema
- Genetic Predisposition to Disease
- Genetic Predisposition to Disease
- Hypertrophy
- Lipid Metabolism
- Mitochondrial Myopathies
- Tachycardia