

Rabbit Anti-Troponin I fast + slow skeletal muscle antibody

SL10617R

Product Name Troponin I fast + slow skeletal muscle

Chinese Name 骨骼肌快/慢肌肌钙蛋白 I 抗体

Alias

AMCD2B; DA2B; DKFZp451O223; Fast twitch skeletal muscle troponin I; FSSV; fsTnI; OTTHUMP00000014141; OTTHUMP00000014142; OTTHUMP00000014143; OTTHUMP000000033909; OTTHUMP00000033910; SSTNI; TNN1; Troponin I fast twitch 2; T (skeletal, slow); Troponin I type 2 (skeletal, fast); Troponin I, fast skeletal muscle; Troponin I, fast isoform; Troponin I, fast twitch skeletal muscle isoform; Troponin I, skeletal, fast; Troponin I, skeletal muscle; Troponin I, slow twitch isoform; TNNI1_HUMAN; TNNI2_HUMAN.

Research Area

Cell biology immunology Signal transduction Cytoskeleton

Immunogen Species

Rabbit

Clonality

Polyclonal

React Species

(predicted: Human, Chicken, Pig, Cow, Rabbit, Sheep,)

Applications

WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA (Paraffin sections need antigen repair)
not yet tested in other applications.
optimal dilutions/concentrations should be determined by the end user.

Theoretical molecular weight

33kDa

Cellular localization

cytoplasmic

Form

Liquid

Concentration

1mg/ml

immunogen

KLH conjugated synthetic peptide derived from human TNNI1+TNNI2 : 51-150/182

Lsotype

IgG

Purification

affinity purified by Protein A

Buffer Solution

1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.

Storage	Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Attention	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
PubMed	PubMed Troponin proteins associate with tropomyosin and regulate the calcium sensitivity of the myofibrillar apparatus of striated muscles. Troponin I (TnI), along with troponin T (TnT) and troponin C (TnC) are the subunits that form the troponin complex of the thin filaments of striated muscle. TnI is the inhibitory subunit that blocks actin-myosin interactions and thereby mediating striated muscle relaxation. The TnI subunit is encoded by three genes: TnI-skeletal-fast-twitch, TnI-skeletal-slow-twitch, and TnI-cardiac. The TnI-fast and TnI-skeletal-slow-twitch genes are expressed in fast-twitch and slow-twitch skeletal muscle fibers, respectively, while the TnI-cardiac gene is expressed exclusively in cardiac muscle tissue. Function: Troponin T is the tropomyosin-binding subunit of troponin, the thin filament regulatory complex that regulates calcium-sensitivity to striated muscle actomyosin ATPase activity. Subunit: Binds to actin and tropomyosin. DISEASE: Arthrogryposis, distal, 2B (DA2B) [MIM:601680]: A form of distal arthrogryposis, a disease characterized by congenital joint contractures that mainly involve two or more distal parts of the limbs, in the absence of any neurological or muscle disease. DA2B is characterized by contractures of the hands and feet, and a face characterized by prominent nasolabial folds, small mouth and downslanting palpebral fissures. This disease is caused by mutations affecting the gene represented in this entry. Similarity: Belongs to the troponin I family. SWISS: P19237 Gene ID: 7135 Database links: Entrez Gene: 7135 Human Entrez Gene: 7136 Human Omim: 191042 Human Omim: 191043 Human
Product Detail	



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[SwissProt: P19237](#) Human

[SwissProt: P48788](#) Human