10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

MYH7 Antibody (N-term) Blocking Peptide

Synthetic peptide
Catalog # BP17633a

Specification

MYH7 Antibody (N-term) Blocking Peptide - Product Information

Primary Accession P12883

MYH7 Antibody (N-term) Blocking Peptide - Additional Information

Gene ID 4625

Other Names
Myosin-7, Myosin heavy chain 7, Myosin heavy chain slow isoform, MyHC-slow, Myosin heavy chain, cardiac muscle beta isoform, MyHC-beta, MYH7, MYHCB

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

MYH7 Antibody (N-term) Blocking Peptide - Protein Information

Name MYH7

Synonyms MYHCB

Function
Myosins are actin-based motor molecules with ATPase activity essential for muscle contraction. Forms regular bipolar thick filaments that, together with actin thin filaments, constitute the fundamental contractile unit of skeletal and cardiac muscle.

Cellular Location
Cytoplasm, myofibril {ECO:0000250|UniProtKB:P02564}. Cytoplasm, myofibril, sarcomere {ECO:0000250|UniProtKB:P02564}. Note=Thick filaments of the myofibrils {ECO:0000250|UniProtKB:P02564}

Tissue Location
Both wild type and variant Gln-403 are detected in skeletal muscle (at protein level).

MYH7 Antibody (N-term) Blocking Peptide - Protocols

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Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

MYH7 Antibody (N-term) Blocking Peptide - Images

MYH7 Antibody (N-term) Blocking Peptide - Background

Muscle myosin is a hexameric protein containing 2 heavychain subunits, 2 alkali light chain subunits, and 2 regulatorylight chain subunits. This gene encodes the beta (or slow) heavychain subunit of cardiac myosin. It is expressed predominantly innormal human ventricle. It is also expressed in skeletal muscletissues rich in slow-twitch type I muscle fibers. Changes in therelative abundance of this protein and the alpha (or fast) heavysubunit of cardiac myosin correlate with the contractile velocityof cardiac muscle. Its expression is also altered during thyroidhormone depletion and hemodynamic overloading. Mutations in thisgene are associated with familial hypertrophic cardiomyopathy,myosin storage myopathy, dilated cardiomyopathy, and Laingearly-onset distal myopathy.

MYH7 Antibody (N-term) Blocking Peptide - References

Millat, G., et al. Clin. Chim. Acta 411 (23-24), 1983-1991 (2010) :Eijgelsheim, M., et al. Hum. Mol. Genet. 19(19):3885-3894(2010)Millat, G., et al. Eur J Med Genet 53(5):261-267(2010)Muelas, N., et al. Neurology 75(8):732-741(2010)Zheng, D.D., et al. J. Int. Med. Res. 38(3):810-820(2010)