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Myosin heavy chain 2 Recombinant Rabbit mAb

Catalog # AP98657

Product Information

Application	WB, IHC-P
Primary Accession	Q9UKX2
Other Accession	Q9UKX2
Reactivity	Rat, Human, Mouse
Host	Rabbit
Clonality	Recombinant
Calculated MW	223044
Physical State	Liquid
Immunogen	A synthesized peptide derived from human Myosin heavy chain 2
Epitope Specificity	50-100
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	10mM phosphate buffered saline(pH 7.4) with 150mM sodium chloride, 0.05% BSA, 0.02% Proclin300 and 50% glycerol.
SIMILARITY	Contains 1 IQ domain.Contains 1 myosin head-like domain.
SUBUNIT	Muscle myosin is a hexameric protein that consists of 2 heavy chain subunits (MHC), 2 alkali light chain subunits (MLC) and 2 regulatory light chain subunits (MLC-2). Interacts with GCSAM.
DISEASE	Inclusion body myopathy 3 (IBM3) [MIM:605637]: Hereditary inclusion body myopathies constitute a group of neuromuscular disorders characterized by slowly progressive distal and proximal weakness and a typical muscle pathology including rimmed vacuoles and filamentous inclusions. IBM3 is a variant of hereditary inclusion body myopathies and is characterized by autosomal dominant myopathy with joint contracture, ophthalmoplegia and rimmed vacuoles. Morphological analysis of muscle biopsies from patients indicate that the type 2A fibers frequently were abnormal, whereas other fiber types appeared normal. Note=The disease is caused by mutations affecting the gene represented in this entry.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Muscle contraction. Required for cytoskeleton organization.

Additional Information

Gene ID	4620
Other Names	CMYO6; CMYP6; IBM3; MYH2A; MYHSA2; MYHas8; MYPOP; MyHC-2A; MyHC-IIa; MYH2_HUMAN; MYH2; Myosin heavy chain 2; Myosin heavy chain 2a (MyHC-2a); Myosin heavy chain IIa (MyHC-IIa); Myosin heavy chain, skeletal muscle, adult 2; myosin, heavy polypeptide 2, skeletal muscle, adult; inclusion body myopathy 3, autosomal dominant
Dilution	WB=1:500-2000,IHC-P=1:100-500

Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	MYH2 (HGNC:7572)
Synonyms	MYHSA2
Function	Myosins are actin-based motor molecules with ATPase activity essential for muscle contraction.
Cellular Location	Cytoplasm, myofibril {ECO:0000250|UniProtKB:G3UW82}. Note=Thick filaments of the myofibrils

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.