MYH2 Monoclonal Antibody

Catalog No	BYmab-05771
Isotype	IgG
Reactivity	Human;Rat;Mouse;
Applications	WB
Gene Name	MYH2 MYHSA2
Protein Name	Myosin-2 (Myosin heavy chain 2) (Myosin heavy chain 2a) (MyHC-2a) (Myosin heavy chain IIa) (MyHC-IIa) (Myosin heavy chain, skeletal muscle, adult 2)
Immunogen	Synthesized peptide derived from human protein . at AA range: 760-840
Specificity	MYH2 Monoclonal Antibody detects endogenous levels of protein.
Formulation	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	
Observed Band	213kD
Cell Pathway	Cytoplasm, myofibril. Thick filaments of the myofibrils.
Tissue Specificity	Cerebellum,Muscle pool- 2 tissues- cardiac and skeletal muscle.,Skeletal muscle,
Function	disease:Defects in MYH2 are the cause of inclusion body myopathy type 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.,domain:The rodlike tail sequence is highly repetitive, showing cycles of a 28-residue repeat pattern composed of 4 heptapeptides, characteristic for alpha-helical coiled coils.,function:Muscle

	contraction. Required for cytoskeleton organization.
Background	Myosins are actin-based motor proteins that function in the generation of mechanical force in eukaryotic cells. Muscle myosins are heterohexamers composed of 2 myosin heavy chains and 2 pairs of nonidentical myosin light chains. This gene encodes a member of the class II or conventional myosin heavy chains, and functions in skeletal muscle contraction. This gene is found in a cluster of myosin heavy chain genes on chromosome 17. A mutation in this gene results in inclusion body myopathy-3. Multiple alternatively spliced variants, encoding the same protein, have been identified. [provided by RefSeq, Sep 2009],
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

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