DATASHEET

Heavy chain Myosin / MYH3 Rabbit Monoclonal Antibody(ARA485)

CAT. NO. ARA5797

KEY FEATURES

Target	heavy chain Myosin / MYH3	**Source / Host**	Rabbit
Reactivity	Human, Mouse, Rat	**Clonality**	Monoclonal
Applications	WB,IHC,IP	**Conjugation**	Unconjugated
Isotype	IgG	**Storage**	at -20°C

BACKGROUND

Myosin-3 is a protein that in humans is encoded by the MYH3 gene. Myosin is a major contractile protein which converts chemical energy into mechanical energy through the hydrolysis of ATP. Myosin is a hexameric protein composed of a pair of myosin heavy chains (MYH) and two pairs of nonidentical light chains. This gene is a member of the MYH family and encodes a protein with an IQ domain and a myosin head-like domain. Mutations in this gene have been associated with two congenital contracture (arthrogryposis) syndromes, Freeman-Sheldon syndrome and Sheldon-Hall syndrome.

APPLICATION

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

WB	1:2,000 - 1:5,000
IHC	1:5,000 - 1:30,000
IP	1-2 μg per sample

*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

OVERVIEW

Description	Rabbit monoclonal antibody to heavy chain Myosin / MYH3 for WB, IHC and IP.
Specificity	Recognizes endogenous levels of heavy chain Myosin / MYH3 protein
Immunogen	Synthetic peptide within mouse MYH3 aa 1,811-1,860.
Molecular Weight	Predicted: 224 kDa; Observed: 250 kDa
Purification	Protein A affinity purification
Isotype	IgG
Form/Buffer	Liquid in PBS (pH 7.4) with 0.1% BSA, 40% glycerol and 0.2% ProClean 950.
Subcellular Location	Cytoplasm, myofibril.
Alternative Names	Myosin-3, Myosin heavy chain 3, HEMHC, MYHC EMB, MYHSE1, SMHCE
Gene Symbol	MYH3
Entrez Gene	4621 (Human); 17883 (Mouse); 24583 (Rat)
SwissProt	P11055 (Human); P13541 (Mouse); P12847 (Rat)

*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact info@arexbio.com or your local distributor.

*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

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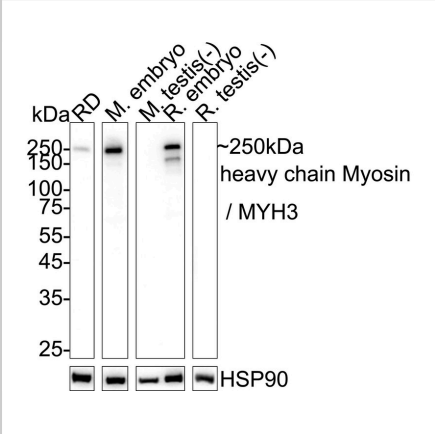
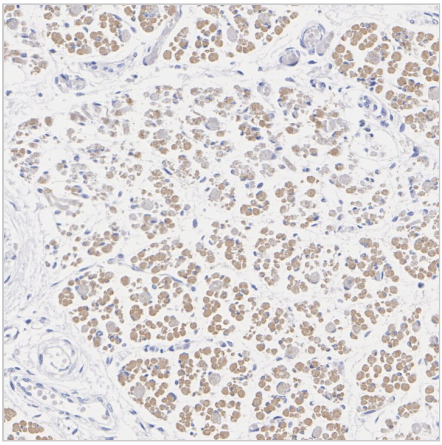
DATA



Western blot analysis of heavy chain Myosin / MYH3 on different lysates with Heavy chain Myosin / MYH3 Rabbit Monoclonal Antibody(ARA485) at 1:5,000 dilution.

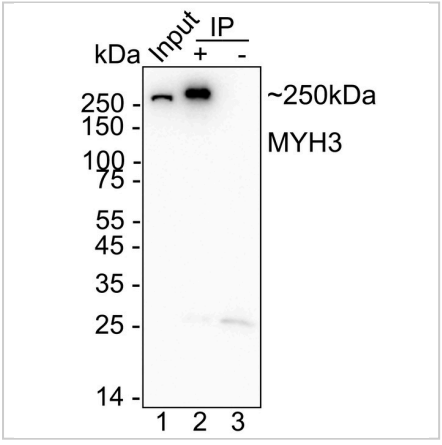
Lane 1: RD cell lysate
Lane 2: Mouse embryo tissue lysate
Lane 3: Mouse testis tissue lysate (negative)
Lane 4: Rat embryo tissue lysate
Lane 5: Rat testis tissue lysate (negative)

Lysates/proteins at 20 µg/lane.
Predicted band size: 224 kDa
Observed band size: 250 kDa



Immunohistochemical analysis of paraffin-embedded human fetal skeletal muscle tissue with Heavy chain Myosin / MYH3 Rabbit Monoclonal Antibody(ARA485) at 1:10,000 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH2O and PBS, and then probed with the primary antibody at 1:10,000 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.



Heavy chain Myosin / MYH3 was immunoprecipitated from 0.2 mg RD cell lysate with Heavy chain Myosin / MYH3 Rabbit Monoclonal Antibody(ARA485) at 2 µg/10 µl beads. Western blot was performed from the immunoprecipitate using the same antibody at 1:5,000 dilution. HRP-conjugated Anti-Rabbit IgG for IP Nano-secondary antibody at 1:5,000 dilution was used for 1 hour at room temperature.

Lane 1: RD cell lysate (input)
Lane 2: Antibody IP in RD cell lysate
Lane 3: Rabbit IgG instead of the antibody in RD cell lysate

STORAGE

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

NOTE

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.

More information: www.arexbio.com