

For Research Use Only

MYH1-motor domain Polyclonal antibody

Catalog Number: 22282-1-AP



Basic Information

Catalog Number:

22282-1-AP

Size:

150ul, Concentration: 700 ug/ml by Nanodrop and 413 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

NM_005963

GeneID (NCBI):

4619

UNIPROT ID:

P12882

Full Name:

myosin, heavy chain 1, skeletal muscle, adult

Calculated MW:

223 kDa

Observed MW:

223 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:2000

IHC 1:20-1:200

Applications

Tested Applications:

WB, IHC, FC (Intra), ELISA

Species Specificity:

human, mouse

Positive Controls:

WB : human skeletal muscle tissue,

IHC : human skeletal muscle tissue,

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Background Information

MYH1 (MyHC-2x) encodes the IIX isoform of myosin heavy chain (MyHC). Myosin is a large, ubiquitous, motor protein that generates force through its interaction with actin, thus involving it in a number of cellular processes including cytokinesis, karyokinesis, cell migration, and muscle contraction. Muscle fibers can be divided as type 1 (slow) and type 2 (fast). MYH1 belongs to type 2.

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:

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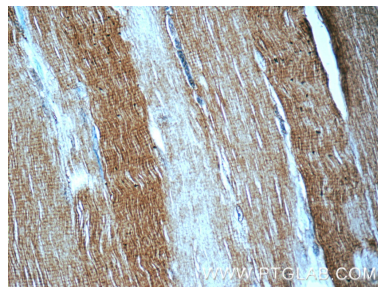
Selected Validation Data



human skeletal muscle tissue were subjected to SDS PAGE followed by western blot with 22282-1-AP (MYH1 Antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human skeletal muscle tissue slide using 22282-1-AP (MYH1 Antibody) at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human skeletal muscle tissue slide using 22282-1-AP (MYH1 Antibody) at dilution of 1:50 (under 40x lens).



1X10⁶ C2C12 cells were intracellularly stained with 0.4 ug Anti-Human MYH1-motor domain (22282-1-AP) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).