For Research Use Only

MYOM3 Polyclonal antibody

Catalog Number:17692-1-AP 15 Publications

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Basic Information

Catalog Number:
17692-1-AP

Size:
150ul , Concentration: 600 ug/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG11849

GenBank Accession Number:
BC067101

GeneID (NCBI):
127294

UNIPROT ID:
Q5VTT5

Full Name:
myomesin family, member 3

Calculated MW:
162 kDa, 136 kDa

Observed MW:
162 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:1000-1:8000
IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC 1:20-1:400
IF-P 1:50-1:500

Applications

Tested Applications:
WB, IHC, IF-P, IP, ELISA

Cited Applications:
WB, IF, IP, ELISA

Species Specificity:
human, mouse, rat

Cited Species:
human, mouse, canine

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

Positive Controls:

WB : mouse skeletal muscle tissue, rat skeletal muscle tissue

IP : mouse skeletal muscle tissue,

IHC : human skeletal muscle tissue, mouse skeletal muscle tissue

IF-P : mouse skeletal muscle tissue,

Background Information

MYOM3 (myomesin 3) is a structural component of the M-band in striated muscle and is involved in sarcomere stability and resistance during intense or sustained stretching. MYOM3 can be detected mainly in intermediate-speed fibers of skeletal muscle. Recently high levels of MYOM3 fragments were detected in sera from patients with muscular dystrophy, including Duchenne muscular dystrophy (DMD). MYOM3 fragments may be used as serum biomarkers for DMD and other neuromuscular disorders. This antibody recognizes the intact MYOM3 protein (160-162 kDa) as well as MYOM3 fragments (100 kDa and 130 kDa). (26060189)

Notable Publications

Author	Pubmed ID	Journal	Application
Minjung Lee	33124011	Int J Sports Med	ELISA
Flavien Bizot	36514350	Mol Ther Nucleic Acids	WB
Jeffrey M Lynch	30395621	PLoS One	WB

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
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:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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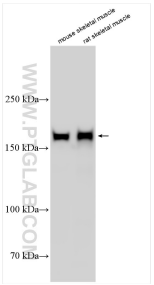
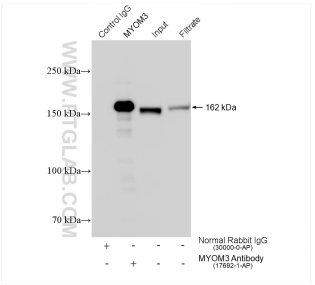
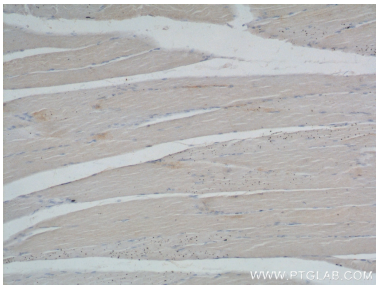
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 17692-1-AP (MYOM3 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.

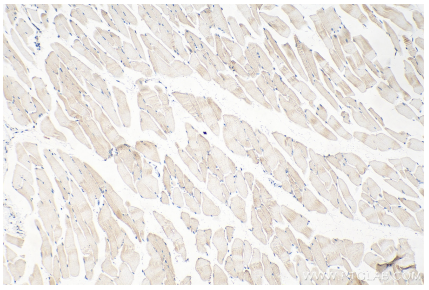


IP result of anti-MYOM3 (IP:17692-1-AP, 4ug; Detection:17692-1-AP 1:1000) with mouse skeletal muscle tissue lysate 1280 ug.

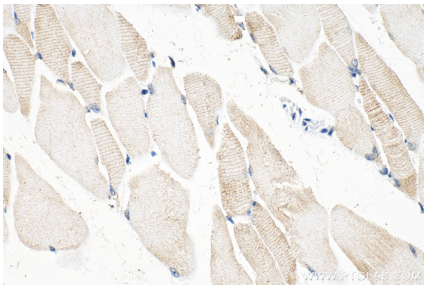


Immunohistochemical analysis of paraffin-embedded human skeletal muscle tissue slide using 17692-1-AP (MYOM3 Antibody) at dilution of 1:200 (under 10x lens).

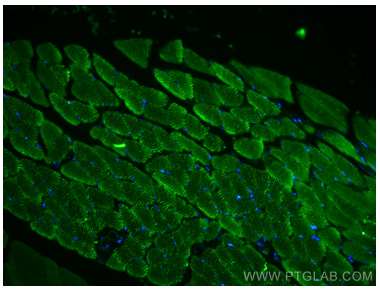
Immunohistochemical analysis of paraffin-embedded human skeletal muscle tissue slide using 17692-1-AP (MYOM3 Antibody) at dilution of 1:200 (under 40x lens).



Immunohistochemical analysis of paraffin-embedded mouse skeletal muscle tissue slide using 17692-1-AP (MYOM3 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse skeletal muscle tissue slide using 17692-1-AP (MYOM3 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed mouse skeletal muscle tissue using MYOM3 antibody (17692-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L).