For Research Use Only

MAP7D1 Polyclonal antibody

Catalog Number:20788-1-AP

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Basic Information

Catalog Number:
20788-1-AP

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

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG14385

GenBank Accession Number:
BC003083

GeneID (NCBI):
55700

UNIPROT ID:
Q3KQU3

Full Name:
MAP7 domain containing 1

Calculated MW:
841 aa, 93 kDa

Observed MW:
120-130 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:5000-1:50000
IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC 1:500-1:2000
IF/ICC 1:50-1:500

Applications

Tested Applications:
WB, IHC, IF/ICC, IP, ELISA

Species Specificity:
human

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 : HEK-293 cells, MDA-MB-231 cells

IP : HEK-293 cells,

IHC : mouse skeletal muscle tissue, mouse heart tissue

IF/ICC : U-251 cells,

Background Information

MAP7D1 also known as RPRC1, PARCC1, belongs to the MAP7 family. The MAP7 (Microtubule Associated Protein 7) protein family, consisting of four members, MAP7, MAP7D1, and MAP7D2, MAP7D3, is the microtubule-associated protein involved in various cellular processes regulating microtubule dynamics, organization, and stability(PMID: 28980356). MAP7D1 exhibits the highest conservation with MAP7 and was recently identified as a phosphorylation substrate of DCLK1 in cortical neurons. MAP7D1 is required to maintain MT acetylation, which is enriched in stable MTs(PMID: 35470240). Consistent with the literature, the apparent molecular mass of MAP7D1 detected by Western blot was 120-130 kDa (PMID: 35470240, 37550720).

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:
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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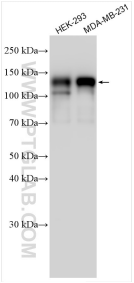
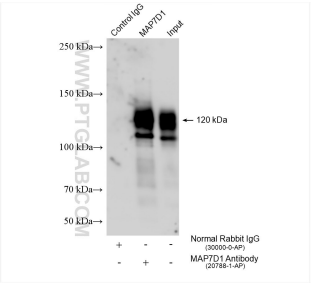
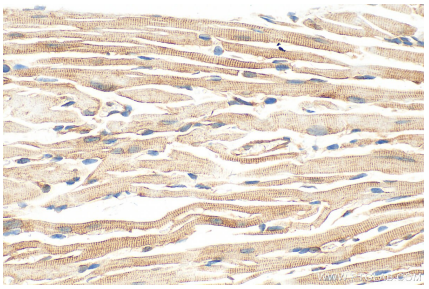
Selected Validation Data



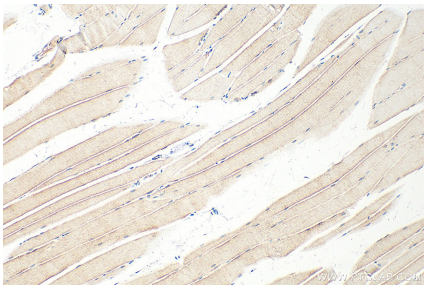
Various lysates were subjected to SDS PAGE followed by western blot with 20788-1-AP (MAP7D1 antibody) at dilution of 1:15000 incubated at room temperature for 1.5 hours.



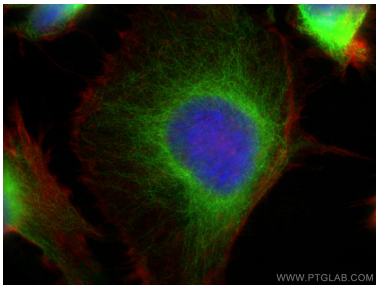
IP result of anti-MAP7D1 (IP:20788-1-AP, 4ug; Detection:20788-1-AP 1:30000) with HEK-293 cells lysate 1470 ug.



Immunohistochemical analysis of paraffin-embedded mouse heart tissue slide using 20788-1-AP (MAP7D1 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse skeletal muscle tissue slide using 20788-1-AP (MAP7D1 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed U-251 cells using MAP7D1 antibody (20788-1-AP) at dilution of 1:200 and Multi-rAb CoraLite ® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002), CL594-Phalloidin (red).