For Research Use Only

Dystrophin Polyclonal antibody

Catalog Number:12715-1-AP Featured Product 23 Publications

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Basic Information

Catalog Number:
12715-1-AP

Size:
150ul , Concentration: 1000 μg/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG3408

GenBank Accession Number:
BC028720

GeneID (NCBI):
1756

Full Name:
dystrophin

Calculated MW:
3685 aa, 427 kDa

Observed MW:
70 kDa, 430 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:2000-1:10000
IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC 1:400-1:1600
IF 1:20-1:200

Applications

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

Cited Applications:
IF, IHC, IP, WB

Species Specificity:
human, mouse, rat

Cited Species:
human, rat, mouse

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 brain tissue, HepG2 cells, mouse lung, rat brain

IP : mouse brain tissue,

IHC : mouse heart tissue, human heart tissue, human skeletal muscle tissue, mouse skeletal muscle tissue

IF : mouse skeletal muscle tissue, rat heart tissue

Background Information

Dystrophin (DMD or BMD) is a large muscle protein whose mutations cause Duchenne muscular dystrophy (DMD) and Becker muscular dystrophy (BMD), the childhood neuromuscular disorders that result in progressive muscle weakness, respiratory difficulties and cardiovascular dysfunction. Dystrophin is a crucial component of the dystrophin-glycoprotein complex which is essential for muscle membrane integrity and stability. Dystrophin is located on the cytoplasmic face of the sarcolemma and connects the cytoskeletal network to the sarcolemma and extracellular matrix. Multiple isoforms of dystrophin exist due to the alternative splicing, with a wide range of MW (69-72, 110-143, 271, 426 kDa). Most tissues contain transcripts of several isoforms.

Notable Publications

Author	Pubmed ID	Journal	Application
Takahiro Fujimoto	32996569	Hum Mol Genet	WB,IP,IF
Jihad El Andari	36129972	Sci Adv	WB,IF
Wen-Tong Liu	30340642	J Neuroinflammation	WB

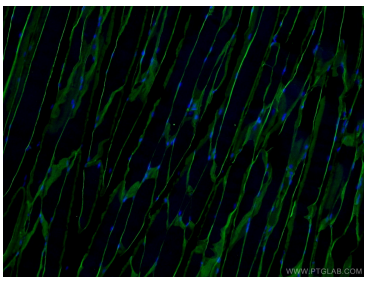
Storage

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

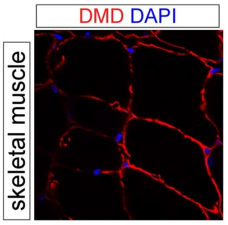
*** 20ul sizes contain 0.1% BSA

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
W: ptglab.com

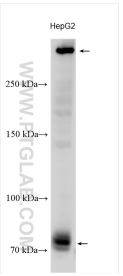
Selected Validation Data



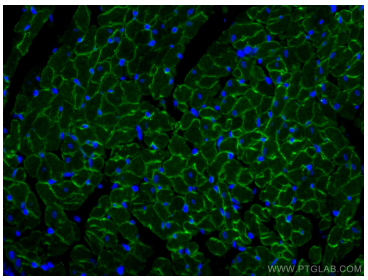
Immunofluorescent analysis of (4% PFA) fixed mouse skeletal muscle tissue using 12715-1-AP (Dystrophin antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



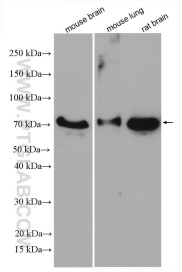
IF result of anti-DMD (12715-1-AP, 1:500) with PFA fixed mouse skeletal muscle tissue by Dr. Daniel Kopinke.



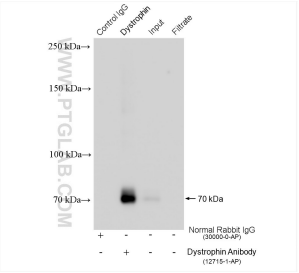
Various lysates were subjected to SDS PAGE followed by western blot with 12715-1-AP (Dystrophin antibody) at dilution of 1:15000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed rat heart tissue using Dystrophin antibody (12715-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), Connexin 43 antibody (26980-1-AP, green).

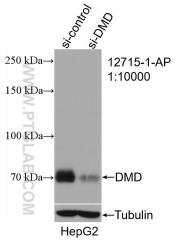


Various lysates were subjected to SDS PAGE followed by western blot with 12715-1-AP (Dystrophin antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.

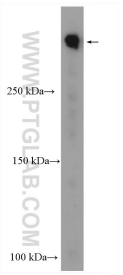


IP result of anti-Dystrophin(IP:12715-1-AP, 4ug; Detection:12715-1-AP 1:20000) with mouse brain tissue lysate 1280 ug.

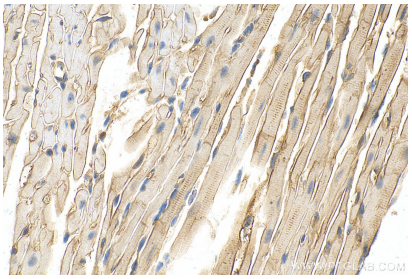
Immunohistochemical analysis of paraffin-embedded human skeletal muscle tissue slide using 12715-1-AP (Dystrophin antibody at dilution of 1:200 (under 40x lens).



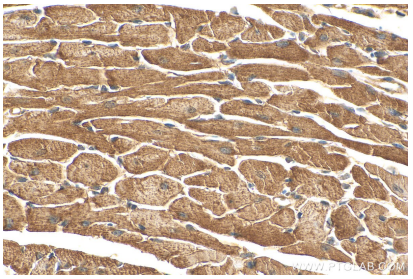
WB result of Dystrophin antibody (12715-1-AP; 1:10000; incubated at room temperature for 1.5 hours) with sh-Control and sh-Dystrophin transfected HepG2 cells.



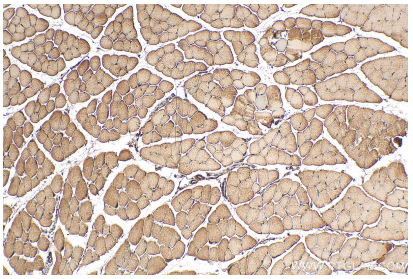
HepG2 cells were subjected to SDS PAGE followed by western blot with 12715-1-AP (Dystrophin antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



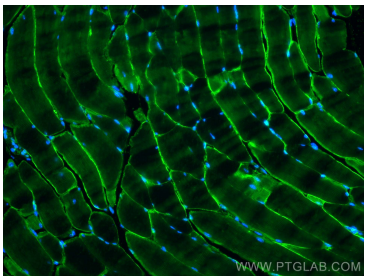
Immunohistochemical analysis of paraffin-embedded mouse heart tissue slide using 12715-1-AP (Dystrophin antibody) at dilution of 1:800 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse heart tissue slide using 12715-1-AP (Dystrophin antibody) at dilution of 1:200 (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 12715-1-AP (Dystrophin antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse skeletal muscle tissue using Dystrophin antibody (12715-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).