

Dystroglycan Monoclonal antibody

Catalog Number: 66735-1-Ig

Featured Product

1 Publications

Basic Information

Catalog Number: 66735-1-Ig	GenBank Accession Number: BC012740	Purification Method: Protein A purification
Size: 150ul , Concentration: 1500 µg/ml by Nanodrop and 1000 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 1605	CloneNo.: 2B1G12
Source: Mouse	Full Name: dystroglycan 1 (dystrophin-associated glycoprotein 1)	Recommended Dilutions: WB 1:5000-1:50000 IHC 1:2000-1:8000
Isotype: IgG1	Calculated MW: 97 kDa	
Immunogen Catalog Number: AG27222	Observed MW: 43 kDa, 30 kDa	

Applications

Tested Applications:

FC, IHC, WB, ELISA

Cited Applications:

FC

Species Specificity:

Human, Mouse, Rat, Pig

Cited Species:

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 : A549 cells, pig brain tissue, rat brain tissue, mouse brain tissue, NCI-H1299 cells, HeLa cells, HepG2 cells

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

Background Information

Dystroglycan, also known as DAG1 or DG, was originally isolated from skeletal muscle as an integral membrane component of the dystrophin-glycoprotein complex (DGC). In addition to skeletal muscle, dystroglycan is strongly expressed in heart and smooth muscle, as well as many non-muscle tissues including brain and peripheral nerve (PMID: 12556455). The dystroglycan is involved in a number of processes including laminin and basement membrane assembly, sarcolemmal stability, cell survival, peripheral nerve myelination, nodal structure, cell migration, and epithelial polarization. Dystroglycan consists of two subunits (alpha and beta), which are translated from a single mRNA as a propeptide that is proteolytically cleaved into two noncovalently associated proteins (PMID: 16410545). Alpha-dystroglycan is a 156-kDa extracellular peripheral glycoprotein, while beta-dystroglycan is a 43-kDa transmembrane protein (PMID: 9858474). The 43-kDa beta-dystroglycan can be cleaved into a ~30-kDa form (PMID: 14678802; 18458097; 17255331).

Notable Publications

Author	Pubmed ID	Journal	Application
Nicolás Sarute	32719120	Proc Natl Acad Sci U S A	FC

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

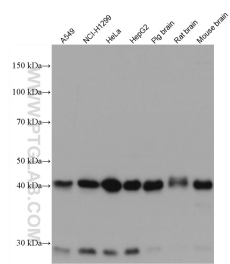
For technical support and original validation data for this product please contact:

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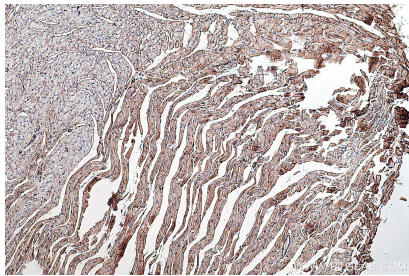
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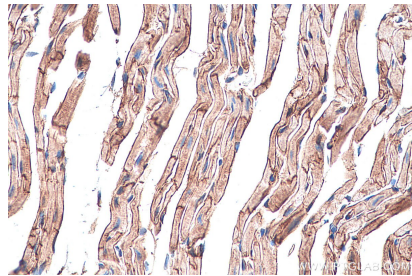
Selected Validation Data



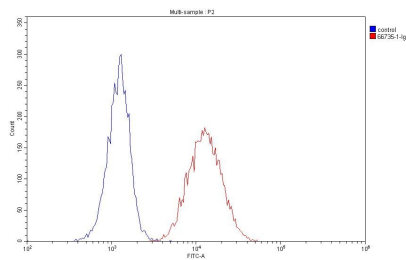
Various lysates were subjected to SDS PAGE followed by western blot with 66735-1-Ig (Dystroglycan antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse heart tissue slide using 66735-1-Ig (Dystroglycan antibody) at dilution of 1:4000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse heart tissue slide using 66735-1-Ig (Dystroglycan antibody) at dilution of 1:4000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1X10⁶ HeLa cells were stained with 0.20ug Dystroglycan antibody (66735-1-Ig, red) and control antibody (blue). Fixed with 90% MeOH.