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Dystroglycan Monoclonal antibody Catalog Number:66735-1-lg Featured Product 2 Publications

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	66735-1-lg	BC012740	Purification Method: Protein A purification	
	Concentration:	GenelD (NCBI):	CloneNo.:	
	1000 ug/ml	1605	2B1G12	
	Source: Mouse Isotype: IgG1 Immunogen Catalog Number: AG27222	UNIPROT ID: Q14118	ID: Recommended Dilutions: WB 1:5000-1:50000	
		Full Name:	IHC 1:2000-1:8000	
		dystroglycan 1 (dystrophin-associated ^{IF/ICC} 1:400-1:1600 glycoprotein 1)		
		Calculated MW: 97 kDa	/W:	
		Observed MW: 43 kDa, 30 kDa		
Applications	Tested Applications:	Positive Controls:		
	WB, IHC, IF/ICC, ELISA		A549 cells, NCI-H1299 cells, HeLa cells, HepG2	
	Cited Applications: WB		lls, pig brain tissue, rat brain tissue, mouse brain	
	Species Specificity: human, mouse, rat, pig	skeleta	IHC : mouse heart tissue, human colon tissue, mouse skeletal muscle tissue, rat heart tissue, rat skeletal muscle tissue	
	Cited Species: human, mouse	IF/ICC	: HeLa cells, A549 cells	
	Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0			
	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 translate 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-dystroglyca 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).			
Background Informatior	expressed in heart and smooth (PMID: 12556455). The dystroglyc membrane assembly, sarcolemm migration, and epithelial polarizz from a single mRNA as a propepti (PMID: 16410545). Alpha-dystrogl is a 43-kDa transmembrane prote	coprotein complex (DGC). In additio uscle, as well as many non-muscle can is involved in a number of proce lal stability, cell survival, periphera ation. Dystroglycan consists of two s de that is proteolytically cleaved ir lycan is a 156-kDa extracellular per in (PMID: 9858474). The 43-kDa bet	n to skeletal muscle, dystroglycan is strong tissues including brain and peripheral nerv sses including laminin and basement l nerve myelination, nodal structure, cell subunits (alpha and beta), which are transla nto two noncovalently associated proteins ipheral glycoprotein, while beta-dystroglyc	
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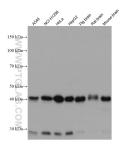
T: 4006900926

E: Proteintech-CN@ptglab.com

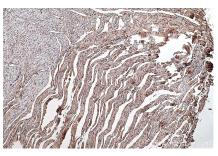
W: ptgcn.com

Group brand and is not available to purchase from any other manufacturer.

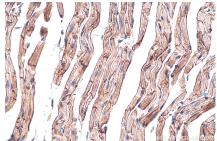
Selected Validation Data



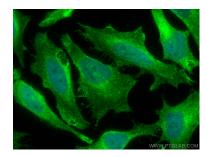
Various lysates were subjected to SDS PAGE followed by western blot with 66735-1-1g (Dystroglycan antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



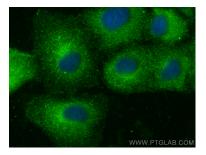
Immunohistochemical analysis of paraffinembedded mouse heart tissue slide using 66735-1-Ig (Dystroglycan antibody) at dilution of 1:4000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded 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).



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using Dystroglycan antibody (66735-1-Ig, Clone: 2B1G12) at dilution of 1:800 and CoraLite@488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



Immunofluorescent analysis of (-20°C Ethanol) fixed A549 cells using Dystroglycan antibody (66735-1-1g, Clone: 2B1G12) at dilution of 1:1000 and Multi-rAb CoraLite ® Plus 488-Goat Anti-Mouse Recombinant Secondary Antibody (H+L) (RGAM002).



Immunohistochemical analysis of paraffinembedded human colon 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).