

CoraLite® Plus 488-conjugated Dystroglycan Monoclonal antibody

Catalog Number: **CL488-66735**

Basic Information

Catalog Number: CL488-66735	GenBank Accession Number: BC012740	Purification Method: Protein G purification
Size: 1000 µg/ml	GeneID (NCBI): 1605	CloneNo.: 2B1G12
Source: Mouse	UNIPROT ID: Q14118	Recommended Dilutions: IF-P 1:50-1:500
Isotype: IgG1	Full Name: dystroglycan 1 (dystrophin-associated glycoprotein 1)	Excitation/Emission maxima wavelengths: 493 nm / 522 nm
Immunogen Catalog Number: AG27222	Calculated MW: 97 kDa	
	Observed MW: 43 kDa, 30 kDa	

Applications

Tested Applications: IF-P	Positive Controls: IF-P: mouse heart tissue,
Species Specificity: Human, Mouse, Rat, Pig	

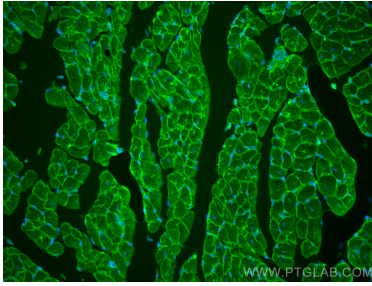
Background Information

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).

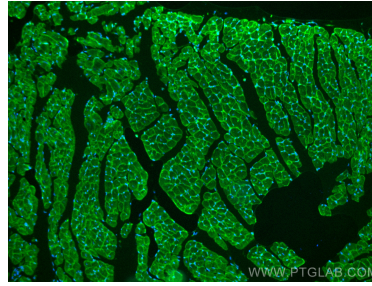
Storage

Storage:
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.
Storage Buffer:
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.
Aliquoting is unnecessary for -20°C storage

Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed mouse heart tissue using Coralite® Plus 488 Dystroglycan antibody (CL488-66735, Clone: 2B1G12) at dilution of 1:200.



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