



Magic™ Anti-Alpha Dystroglycan (Phospho Y893) polyclonal antibody (DPABH-09669)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description The dystroglycan complex 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. Alpha-dystroglycan is an extracellular peripheral glycoprotein that acts as a receptor for both extracellular matrix proteins containing laminin-G domains, and for certain adenoviruses. Receptor for laminin-2 (LAMA2) and agrin in peripheral nerve Schwann cells. Also acts as a receptor for M.leprae in peripheral nerve Schwann cells but only in the presence of the G-domain of LAMA2, and for lymphocytic choriomeningitis virus, Old World Lassa fever virus, and clade C New World arenaviruses. Beta-dystroglycan is a transmembrane protein that plays important roles in connecting the extracellular matrix to the cytoskeleton. Acts as a cell adhesion receptor in both muscle and non-muscle tissues. Receptor for both DMD and UTRN and, through these interactions, scaffolds axin to the cytoskeleton. Also functions in cell adhesion-mediated signaling and implicated in cell polarity.

Specificity	DPABH-09669 recognizes Alpha Dystroglycan when phosphorylated at Tyrosine 893.
Target	Alpha Dystroglycan
Immunogen	Synthetic phosphopeptide: TPYRSPPPY*VPP, phosphorylated at Tyrosine 893 conjugated to KLH, corresponding to amino acids 884-895 of Human Alpha Dystroglycan
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human, Zebrafish
Purification	Immunogen affinity purified
Conjugate	Unconjugated
Applications	WB, IHC-P
Procedure	Phospho-specific Antibodies
Format	Liquid

Size	50 µl
Buffer	pH: 7.20; Constituents: 50% Glycerol, 49% PBS
Preservative	Preservative: 0.09% Sodium azide
Storage	Store at 4°C short term (1-2 weeks). Aliquot and store at -20°C long term. Avoid repeated freeze / thaw cycles.

GENE INFORMATION

Gene Name	DAG1 dystroglycan 1 (dystrophin-associated glycoprotein 2) [Homo sapiens]
Official Symbol	DAG1
Synonyms	DAG1; dystroglycan 1 (dystrophin-associated glycoprotein 1); A3a; DAG; AGRNR; 156DAG; MDDGC7; MDDGC9; dystroglycan;
Entrez Gene ID	1605
mRNA Refseq	NM_001165928.3
Protein Refseq	NP_001159400.2
MIM	128239
UniProt ID	A0A024R2W4
Pathway	Arrhythmogenic right ventricular cardiomyopathy; Arrhythmogenic right ventricular cardiomyopathy (ARVC); Dilated cardiomyopathy; ECM-receptor interaction
Function	SH2 domain binding; actin binding; alpha-actinin binding; calcium ion binding