

anti-Human, Mouse Beta Dystroglycan Antibody | anti-DAG1 antibody

Anti-Beta Dystroglycan [P38G1]

CATALOG # AAA72415	REACTIVITY Human, Mouse	APPLICATIONS Flow Cytometry, Functional Assay, ELISA
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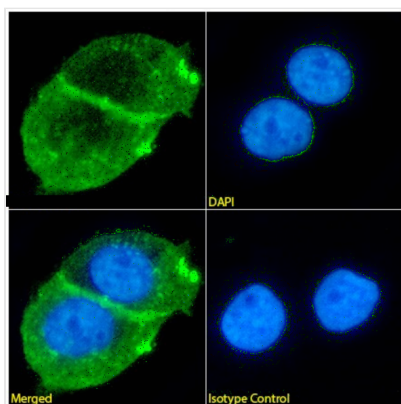
PRODUCT SYNONYMS

Beta Dystroglycan; Anti-Beta Dystroglycan [P38G1]; Dystroglycan 1; Dag1; Beta-DG; beta-DAG; BETA DAG; Dystroglycan; Dystrophin-associated glycoprotein 1; B-Dystroglycan; B Dystroglycan; Beta-dystroglycan; beta dystroglycan; beta-dystroglycan; anti-DAG1 antibody

PRODUCT SPECIFICATIONS

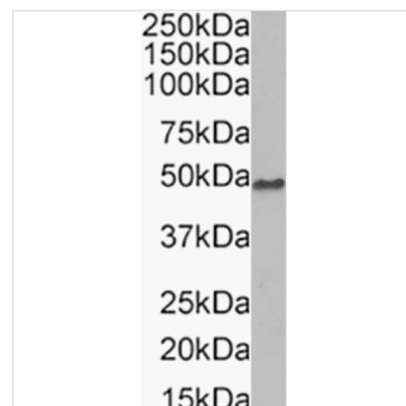
Reactivity	Human, Mouse
Isotype	Rabbit IgG kappa
Clone Number	P38G1
Specificity	This antibody recognizes human and mouse beta dystroglycan (beta-DAG). Beta-dystroglycan is a transmembrane protein that plays an important role in connecting the extracellular matrix to the cytoskeleton. It plays an important role in linking dystrophin to the laminin-binding alpha-dystroglycan. It acts as a cell adhesion receptor in both muscle and non-muscle tissues. It also functions in cell adhesion-mediated signaling and implicated in cell polarity.
Purity/Purification	Purified. Protein A affinity purified
Form/Format	PBS with 0.02% Proclin 300.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-DAG1 antibody	FCM/FACS (Flow Cytometry), ELISA
Preparation and Storage	Store at 4 degree C for up to 3 months. For longer storage, aliquot and store at -20 degree C.

IMAGES



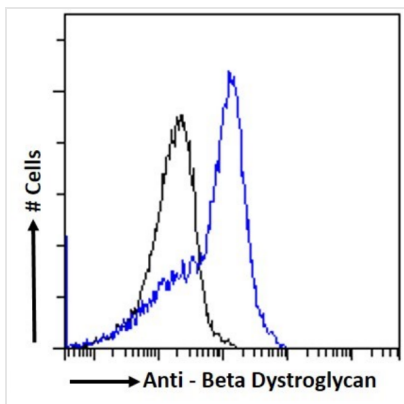
IF (Immunofluorescence)

Immunofluorescence staining of A431 cells with anti-Beta Dystroglycan antibody P38G1. Immunofluorescence analysis of paraformaldehyde fixed A431 cells on Shi-fix™ coverslips stained with the chimeric rabbit IgG version of P38G1 (AAA72415) (1:100 dilution) for 1h followed by Alexa Fluor 488 secondary antibody (1:1000 dilution), showing cell membrane/junction and cytoplasmic staining. The nuclear stain is DAPI (blue). Panels show, from left-right, top-bottom, AAA72415, DAPI, merged channels, and an isotype control. The isotype control was an unknown specificity antibody followed by staining with Alexa Fluor 488 secondary antibody.



WB (Western Blot)

Western blot using anti-Beta Dystroglycan antibody P38G1. Human skeletal muscle tissue lysate (35ug protein in RIPA buffer) was resolved on an SDS-PAGE gel, and blots were probed with the chimeric rabbit version of P38G1 (AAA72415) at 0.1ug/ml before detection using an anti-rabbit secondary antibody. A primary incubation of 1 hour was used, and protein was detected by chemiluminescence.



FCM/FACS (Flow Cytometry)

Flow cytometry using anti-Beta Dystroglycan antibody P38G1 . MCF7 cells were stained with the anti-unknown specificity antibody (isotype control, black line) or the rabbit IgG version of P38G1 (AAA72415, blue line) at a dilution of 1:100 for 1h at RT. After washing, the bound antibody was detected using a goat anti-rabbit IgG AlexaFluor 488 antibody at a dilution of 1:1000, and the cells were analyzed using a FACSCanto flow-cytometer.

ADDITIONAL INFORMATION

Related Product Information for anti-DAG1 antibody	The original antibody was generated by immunizing BALB/c mice with a mixture of transfected HEK 293 cells expressing human and mouse beta-DAG. This chimeric rabbit antibody was made using the variable domain sequences of the original Mouse IgG1 format for improved compatibility with existing reagents assays and techniques.
Product Categories/Family for anti-DAG1 antibody	cell adhesion ; muscle ; dystroglycanopathy ; muscular dystrophy

NCBI AND UNIPROT INFORMATION

NCBI GI #	229462879
NCBI GeneID	1605
UniProt Accession #	Q14118 ; Q62165
Molecular Weight	97,441 Da
NCBI Official Full Name	Dystroglycan
NCBI Official Synonym Full Names	dystroglycan 1 (dystrophin-associated glycoprotein 1)
NCBI Official Symbol	DAG1
NCBI Official Synonym Symbols	A3a; DAG; AGRNR; 156DAG; MDDGC7; MDDGC9
NCBI Protein Information	dystroglycan
UniProt Protein Name	Dystroglycan
UniProt Gene Name	DAG1
UniProt Synonym Gene Names	Alpha-DG; Beta-DG
UniProt Entry Name	DAG1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.