

DAG1 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP14101b

Specification

DAG1 Antibody (C-term) - Product Information

Application WB, IHC-P,E
Primary Accession 014118

Other Accession <u>Q28685</u>, <u>Q29243</u>, <u>NP_001171107.1</u>,

NP 001171111.1, NP 004384.4

Reactivity
Predicted
Pig, Rabbit
Host
Clonality
Polyclonal
Isotype
Rabbit IgG
Antigen Region
Pig, Rabbit
Rabbit
Rabbit
Polyclonal
Rabbit IgG
718-747

DAG1 Antibody (C-term) - Additional Information

Gene ID 1605

Other Names

Dystroglycan, Dystrophin-associated glycoprotein 1, Alpha-dystroglycan, Alpha-DG, Beta-dystroglycan, Beta-DG, DAG1

Target/Specificity

This DAG1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 718-747 amino acids from the C-terminal region of human DAG1.

Dilution

WB~~1:1000-1:2000 IHC-P~~1:10~50

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

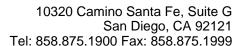
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

DAG1 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

DAG1 Antibody (C-term) - Protein Information

Name DAG1 (HGNC:2666)





Function 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. [Beta-dystroglycan]: 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.

Cellular Location

[Alpha-dystroglycan]: Secreted, extracellular space

Tissue Location

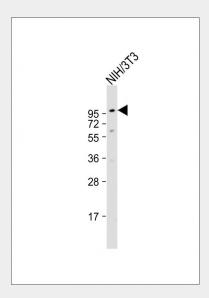
Expressed in a variety of fetal and adult tissues. In epidermal tissue, located to the basement membrane. Also expressed in keratinocytes and fibroblasts.

DAG1 Antibody (C-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

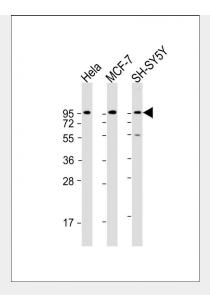
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

DAG1 Antibody (C-term) - Images

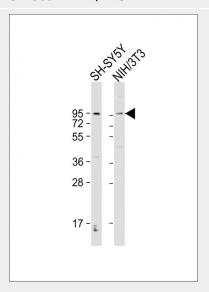


Anti-DAG1 Antibody (C-term) at 1:1000 dilution + NIH/3T3 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 97 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



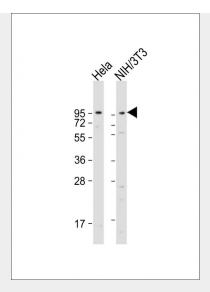


All lanes : Anti-DAG1 Antibody (C-term) at 1:2000 dilution Lane 1: Hela whole cell lysate Lane 2: MCF-7 whole cell lysate Lane 3: SH-SY5Y whole cell lysate Lysates/proteins at 20 μ g per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 97 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

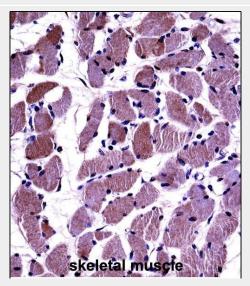


All lanes : Anti-DAG1 Antibody (C-term) at 1:2000 dilution Lane 1: SH-SY5Y whole cell lysate Lane 2: NIH/3T3 whole cell lysate Lysates/proteins at 20 μ g per lane. Secondary Goat Anti-Rabbit lgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 97 kDa Blocking/Dilution buffer: 5% NFDM/TBST.





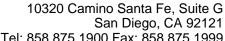
All lanes : Anti-DAG1 Antibody (C-term) at 1:1000-1:2000 dilution Lane 1: Hela whole cell lysate Lane 2: NIH/3T3 whole cell lysate Lysates/proteins at 20 μ g per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 97 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



DAG1 Antibody (C-term) (AP14101b)immunohistochemistry analysis in formalin fixed and paraffin embedded human skeletal muscle followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of DAG1 Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.

DAG1 Antibody (C-term) - Background

Dystroglycan is a laminin binding component of the dystrophin-glycoprotein complex which provides a linkage between the subsarcolemmal cytoskeleton and the extracellular matrix. Dystroglycan 1 is a candidate gene for the site of the mutation in autosomal recessive muscular dystrophies. The dramatic reduction of dystroglycan 1 in Duchenne muscular dystrophy leads to a loss of linkage between the sarcolemma and extracellular matrix, rendering muscle fibers more susceptible to necrosis. Dystroglycan also functions as dual receptor for agrin and laminin-2 in the Schwann cell membrane. The muscle and nonmuscle isoforms of dystroglycan



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differ by carbohydrate moieties but not protein sequence. Alternative splicing results in multiple transcript variants all encoding the same protein.

DAG1 Antibody (C-term) - References

Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010) Nilsson, J., et al. Glycobiology 20(9):1160-1169(2010) Lara-Chacon, B., et al. J. Cell. Biochem. 110(3):706-717(2010) Sgambato, A., et al. Pathology 42(3):248-254(2010) Masaki, T., et al. J. Biomed. Biotechnol. 2010, 740403 (2010):