

DAG1 Antibody (internal region)

Peptide-affinity purified goat antibody Catalog # AF3234a

Specification

DAG1 Antibody (internal region) - Product Information

Application WB, E
Primary Accession 014118

Other Accession
Reactivity
NP_004384.4, 1605
Human, Mouse, Rat

Predicted Dog
Host Goat
Clonality Polyclonal
Concentration 0.5 mg/ml
Isotype IgG

Calculated MW 97441

DAG1 Antibody (internal region) - Additional Information

Gene ID 1605

Other Names

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

Dilution

WB~~1:1000 E~~N/A

Format

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

DAG1 Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

DAG1 Antibody (internal region) - 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

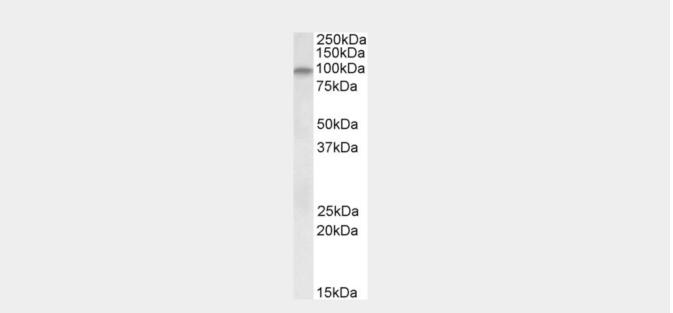
Expressed in a variety of fetal and adult tissues. In epidermal tissue, located to the basement membrane. Also expressed in keratinocytes and fibroblasts.

DAG1 Antibody (internal region) - Protocols

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

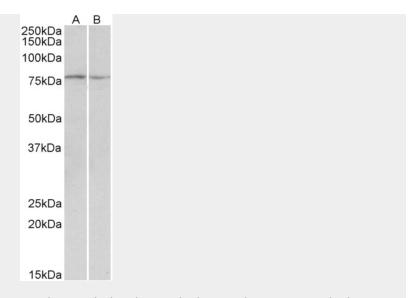
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

DAG1 Antibody (internal region) - Images



EB010102 (0.2 μ g/ml) staining of Human Skeletal Muscle lysate (35 μ g protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.





EB010102 (0.1 μ g/ml) staining of Mouse and Rat Skeletal Muscle lysate (35 μ g protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

DAG1 Antibody (internal region) - Background

This antibody is expected to recognize both the precursor and the mature alpha-dystroglycan, but not the mature beta-dystroglycan.

DAG1 Antibody (internal region) - References

Loss of alpha-dystroglycan laminin binding in epithelium-derived cancers is caused by silencing of LARGE. de Bernabé DB, Inamori K, Yoshida-Moriguchi T, Weydert CJ, Harper HA, Willer T, Henry MD, Campbell KP, The Journal of biological chemistry 2009 Apr 284 (17): 11279-84. PMID: 19244252