10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

DAG1 Antibody (internal region)

Peptide-affinity purified goat antibody
Catalog # AF3234a

Specification

DAG1 Antibody (internal region) - Product Information

Application	**WB, E**
Primary Accession	Q14118
Other Accession	NP_004384.4, 1605
Reactivity	**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

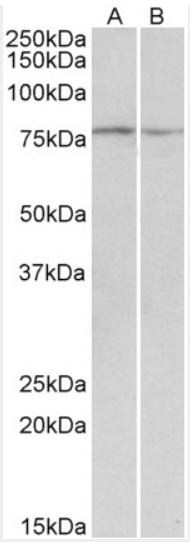
Provided below are standard protocols that you may find useful for product applications.

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

DAG1 Antibody (internal region) - Images

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

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999



EB010102 (0.1 µg/ml) staining of Mouse and Rat Skeletal Muscle lysate (35 µg 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