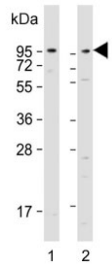
DAG1 Antibody / Dystroglycan (F54375)

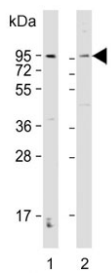
Catalog No.	Formulation	Size
F54375-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F54375-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

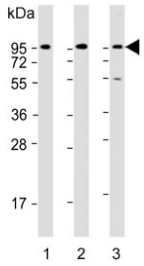
Availability	1-3 business days
Species Reactivity	Human, Mouse
Format	Purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity purified
UniProt	Q14118
Applications	Immunohistochemistry (FFPE) : 1:25 Western Blot : 1:500-1:2000
Limitations	This DAG1 antibody is available for research use only.



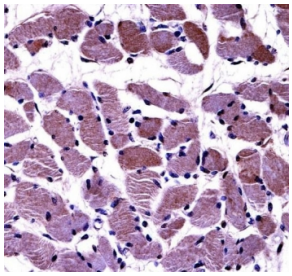
Western blot testing of 1) human HeLa and 2) mouse NIH 3T3 cell lysate with DAG1 antibody. Predicted molecular weight ~97 kDa.



Western blot testing of 1) human SH-SY5Y and 2) mouse NIH 3T3 cell lysate with DAG1 antibody. Predicted molecular weight ~97 kDa.



Western blot testing of human 1) HeLa, 2) MCF7 and 3) SH-SY5Y cell lysate with DAG1 antibody. Predicted molecular weight ~97 kDa.



IHC testing of FFPE human skeletal muscle tissue with DAG1 antibody. HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to staining.

Description

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

Application Notes

The stated application concentrations are suggested starting points. Titration of the DAG1 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 718-747 from the human protein was used as the immunogen for the DAG1 antibody.

Storage

Aliquot the DAG1 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.