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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Datasheet

DAG1 (Human) Recombinant Protein (Q01)

Catalog Number: H00001605-Q01

Regulation Status: For research use only (RUO)

Product Description: Human DAG1 partial ORF (AAH12740, 31 a.a. - 140 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence:

WPSEPSEAVRDWENQLEASMHSVLSLHEAVPTVVGI
PDGTAVVGRSFRVTIPTDLIASSGDIKVSAAAGKEALPS
WLHWDSQSHTLEGLPLDTPDKGVHYISVSATRLGA

Host: Wheat Germ (in vitro)

Theoretical MW (kDa): 37.84

Applications: AP, Array, ELISA, WB-Re
(See our web site product page for detailed applications information)

Protocols: See our web site at
<http://www.abnova.com/support/protocols.asp> or product page for detailed protocols

Preparation Method: [in vitro wheat germ expression system](#)

Purification: Glutathione Sepharose 4 Fast Flow

Storage Buffer: 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

Storage Instruction: Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Entrez GeneID: 1605

Gene Symbol: DAG1

Gene Alias: 156DAG, A3a, AGRNR, DAG

Gene Summary: 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]

References:

1. A High-Throughput Assay for the Detection of ?-Dystroglycan N-Terminus in Human Uterine Fluid to Determine Uterine Receptivity. Heng S, Vollenhoven B, Rombauts LJ, Nie G. J Biomol Screen. 2015 Dec 2.
2. The N-terminal domain of ?-dystroglycan, released as a 38kDa protein, is increased in cerebrospinal fluid in patients with Lyme neuroborreliosis. Hesse C, Johansson I, Mattsson N, Bremell D, Andreasson U, Halim A, Anckarsater R, Blennow K, Anckarsater H, Zetterberg H, Larson G, Hagberg L, Grahn A. Biochem Biophys Res Commun. 2011 Sep 2;412(3):494-9. Epub 2011 Aug 6.