

Recombinant Human DAG1

Cat. No. DAG1-26240TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment of Human DAG1 with proprietary tag.
Species	Human
Source	Wheat Germ
ProteinLength	110 amino acids
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.
Molecular Weight	37.730kDa inclusive of tags
Tissue specificity	Expressed in a variety of fetal and adult tissues. In epidermal tissue, located to the basement membrane. Also expressed in keratinocytes and fibroblasts.
Biological activity	useful for Antibody Production and Protein Array

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Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00Constituents:0.79% Tris HCl, 0.31% GlutathioneNote: Reduced glutathione
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequence Similarities	Contains 1 peptidase S72 domain.

GENE INFORMATION

Gene Name	DAG1 dystroglycan 1 (dystrophin-associated glycoprotein 1) [Homo sapiens]
Official Symbol	DAG1
Synonyms	DAG1; dystroglycan 1 (dystrophin-associated glycoprotein 1); dystroglycan; 156DAG; A3a; AGRNR; alpha dystroglycan; beta dystroglycan; DAG; dystrophin associated glycoprotein 1;
Gene ID	1605
mRNA Refseq	NM_001165928
Protein Refseq	NP_001159400
MIM	128239
Uniprot ID	Q14118

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Chromosome Location	3p21
Pathway	Arrhythmogenic right ventricular cardiomyopathy (ARVC), organism-specific biosystem; Arrhythmogenic right ventricular cardiomyopathy (ARVC), conserved biosystem; Dilated cardiomyopathy, organism-specific biosystem; Dilated cardiomyopathy, conserved biosystem; ECM-receptor interaction, organism-specific biosystem;
Function	SH2 domain binding; actin binding; alpha-actinin binding; calcium ion binding; laminin-1 binding;

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