

Recombinant Human DAG1 293 Cell Lysate

Cat. No. DAG1-7082HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for dystroglycan 1 (dystrophin-associated glycoprotein 1) (DAG1), transcript variant 2 is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid and then lysed in RIPA Buffer. Protein concentration was determined using a colorimetric assay. The antigen control carries a C-terminal Myc/DDK tag for detection.
Components	This product includes 3 vials: 1 vial of gene-specific cell lysate, 1 vial of control vector cell lysate, and 1 vial of loading buffer. Each lysate vial contains 0.1 mg lysate in 0.1 ml (1 mg/ml) of RIPA Buffer (50 mM Tris-HCl pH7.5, 250 mM NaCl, 5 mM EDTA, 50 mM NaF, 1% NP40). The loading buffer vial contains 0.5 ml 2X SDS Loading Buffer (125 mM Tris-Cl, pH6.8, 10% glycerol, 4% SDS, 0.002% Bromophenol blue, 5% beta-mercaptoethanol).
Size	0.1 mg
Storage Instruction	Store at -80°C. Minimize freeze-thaw cycles. After addition of 2X SDS Loading Buffer, the lysates can be stored at -20°C. Product is guaranteed 6 months from the date of shipment.

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Applications

ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil the mixture for 10 min before loading (for membrane protein lysates, incubate the mixture at room temperature for 30 min). Load 5 ug lysate per lane.

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; MDDGC7; FLJ51254;

Gene ID

1605

mRNA Refseq

NM_001165928

Protein Refseq

NP_001159400

MIM

128239

UniProt ID

Q14118

**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

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biosystem; ECM-receptor interaction, conserved biosystem; Hypertrophic cardiomyopathy (HCM), organism-specific biosystem;

Function

SH2 domain binding; actin binding; alpha-actinin binding; calcium ion binding; laminin-1 binding; protein binding; receptor activity; structural constituent of muscle; tubulin binding; vinculin binding;

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