DAG1 Protein, Human (HEK293, His)

Cat. No.:	HY-P75311
Synonyms:	Dystroglycan 1; Alpha-DG; Beta-DG; DAG1
Species:	Human
Source:	HEK293
Accession:	Q14118 (H30-V749)
Gene ID:	1605
Molecular Weight:	Approximately 95-110 kDa, 55-95 kDa and 17-20 kDa due to glycosylation

PROPERTIES

AA Sequence	HWPSEPSEAV RDWENQLEAS MHSVLSDLHE AVPTVVGIPD GTAVVGRSFR VTIPTDLIAS SGDIIKVSAA GKEALPSWLH WDSQSHTLEG LPLDTDKGVH YISVSATRLG ANGSHIPQTS SVFSIEVYPE DHSELQSVRT ASPDPGEVVS SACAADEPVT VLTVILDADL TKMTPKQRID LLHRMRSFSE VELHNMKLVP VVNNRLFDMS AFMAGPGNAK KVVENGALLS WKLGCSLNQN SVPDIHGVEA PAREGAMSAQ LGYPVVGWHI ANKKPPLPKR VRRQIHATPT PVTAIGPPTT AIQEPPSRIV PTPTSPAIAP PTETMAPPVR DPVPGKPTVT IRTRGAIIQT PTLGPIQPTR VSEAGTTVPG QIRPTMTIPG YVEPTAVATP PTTTTKKPRV STPKPATPST DSTTTTTRRP TKKPRTPRPV PRVTTKVSIT RLETASPPTR IRTTTSGVPR GGEPNQRPEL KNHIDRVDAW VGTYFEVKIP SDTFYDHEDT TTDKLKLTLK LREQQLVGEK SWVQFNSNSQ LMYGLPDSSH VGKHEYFMHA TDKGGLSAVD AFEIHVHRRP QGDRAPARFK AKFVGDPALV LNDIHKKIAL VKKLAFAFGD RNCSTITLQN ITRGSIVVEW TNNTLPLEPC PKEQIAGLSR RIAEDDGKPR PAFSNALEPD FKATSITVTG SGSCRHLQFI PVVPPRRVPS EAPPTEVPDR DPEKSSEDDV
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.

Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	Dystroglycan (DAG1) plays a crucial role in various biological processes, participating in laminin and basement membrane assembly, sarcolemmal stability, cell survival, peripheral nerve myelination, nodal structure, cell migration, and epithelial polarization. As an extracellular peripheral glycoprotein, DAG1 serves as a receptor for extracellular matrix proteins containing laminin-G domains. Specifically, it acts as a receptor for laminin-2 (LAMA2) and agrin in peripheral nerve Schwann cells, and also functions as a receptor for laminin LAMA5.

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