

Product datasheet

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ARG42372 anti-LARGE1 antibody [LARGE-02]

Package: 100 μg Store at: -20°C

Summary

Product Description Mouse Monoclonal antibody [LARGE-02] recognizes LARGE1

Tested Reactivity Hu

Tested Application FACS, WB

Specificity The mouse monoclonal antibody LARGE-02 recognizes human LARGE1, a glycosyltransferase expressed

mainly in the Golgi apparatus. Crossreactivity with LARGE2 was not determined.

Host Mouse

Clonality Monoclonal
Clone LARGE-02

Isotype IgG2b
Target Name LARGE1
Species Human

Immunogen Recombinant fragment corresponding to aa. 35-142 of Human LARGE1.

Conjugation Un-conjugated

Alternate Names EC 2.4.1.-; MDC1D; EC 2.4.-.-; Acetylglucosaminyltransferase-like 1A; MDDGA6; MDDGB6;

Glycosyltransferase-like protein LARGE1; EC 2.4.2.-

Application Instructions

Application table	Application	Dilution
	FACS	1 - 5 μg/ml
	WB	Assay-dependent
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

Form Liquid

Purification Purification with Protein A.

Buffer PBS and 15 mM Sodium azide.

Preservative 15 mM Sodium azide

Concentration 1 mg/ml

Storage instruction For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot

and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed

before use.

Bioinformation

Gene Symbol LARGE

Gene Full Name like-glycosyltransferase

Background This gene encodes a member of the N-acetylglucosaminyltransferase gene family. It encodes a

glycosyltransferase which participates in glycosylation of alpha-dystroglycan, and may carry out the synthesis of glycoprotein and glycosphingolipid sugar chains. It may also be involved in the addition of a repeated disaccharide unit. The protein encoded by this gene is the glycotransferase that adds the final xylose and glucuronic acid to alpha-dystroglycan and thereby allows alpha-dystroglycan to bind ligands including laminin 211 and neurexin. Mutations in this gene cause several forms of congenital muscular dystrophy characterized by cognitive disability and abnormal glycosylation of alpha-dystroglycan. Alternative splicing of this gene results in multiple transcript variants that encode the same protein.

[provided by RefSeq, May 2018]

Function Bifunctional glycosyltransferase with both xylosyltransferase and beta-1,3-glucuronyltransferase

activities involved in the biosynthesis of the phosphorylated O-mannosyl trisaccharide (N-acetylgalactosamine-beta-3-N-acetylglucosamine-beta-4-(phosphate-6-)mannose), a carbohydrate structure present in alpha-dystroglycan (DAG1) (PubMed:22223806). Phosphorylated O-mannosyl trisaccharid is required for binding laminin G-like domain-containing extracellular proteins with high affinity and plays a key role in skeletal muscle function and regeneration. LARGE elongates the glucuronyl-beta-1,4-xylose-beta disaccharide primer structure initiated by B3GNT1/B4GAT1 by adding

repeating units [-3-Xylose-alpha-1,3-GlcA-beta-1-] to produce a heteropolysaccharide

(PubMed:25279699). [UniProt]

Calculated Mw 88 kDa

Cellular Localization Golgi apparatus membrane; Single-pass type II membrane protein. [UniProt]