

ARG65221 anti-LARGE1 antibody

Package: 100 µg
Store at: -20°C

Summary

Product Description	Goat Polyclonal antibody recognizes LARGE1
Tested Reactivity	Hu
Predict Reactivity	Cow, Dog
Tested Application	WB
Specificity	Reported variants represent identical protein: NP_004728.1, NP_598397.1
Host	Goat
Clonality	Polyclonal
Isotype	IgG
Target Name	LARGE1
Species	Human
Immunogen	C-SEADVNSENLQKQ
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
	WB	1 - 3 µg/ml
Application Note	WB: Recommend incubate at RT for 1h. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

Form	Liquid
Purification	Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
Buffer	Tris saline (pH 7.3), 0.02% Sodium azide and 0.5% BSA
Preservative	0.02% Sodium azide
Stabilizer	0.5% BSA
Concentration	0.5 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.

Note

For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links

[GeneID: 9215 Human](#)

[Swiss-port # O95461 Human](#)

Gene Symbol

LARGE1

Gene Full Name

LARGE xylosyl- and glucuronyltransferase 1

Background

This gene, which is one of the largest in the human genome, 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. Mutations in this gene cause MDC1D, a novel form of congenital muscular dystrophy with severe mental retardation and abnormal glycosylation of alpha-dystroglycan. Alternative splicing of this gene results in two transcript variants that encode the same protein. [provided by RefSeq, Jul 2008]

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]

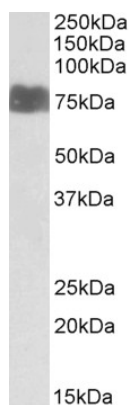
Research Area

Cell Biology and Cellular Response antibody

Calculated Mw

88 kDa

Images



ARG65221 anti-LARGE1 antibody WB image

Western blot: 35 µg of Human kidney lysate (in RIPA buffer) stained with ARG65221 anti-LARGE1 antibody at 1 µg/ml dilution and incubated at RT for 1 hour.