

## 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

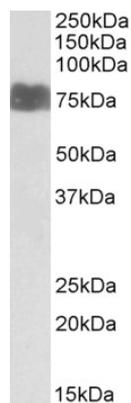
Form	Liquid
Purification	Purified from goat serum by antigen affinity chromatography.
Buffer	Tris saline (pH 7.3), 0.02% Sodium azide and 0.5% BSA.
Preservative	0.02% Sodium azide
Stabilizer	0.5% BSA
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for 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	<a href="#">GeneID: 9215 Human</a> <a href="#">Swiss-port # O95461 Human</a>
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.