abcam

Product datasheet

Anti-ALG1 antibody ab154737

1 Image

Overview

Product name	Anti-ALG1 antibody
Description	Rabbit polyclonal to ALG1
Host species	Rabbit
Tested applications	**Suitable for:** WB
Species reactivity	**Reacts with:** Human
Immunogen	Recombinant fragment corresponding to a region within amino acids 59-350 of Human ALG1 (Uniprot ID: Q9BT22).
Positive control	293T, A431, H1299 and Raji whole cell lysates
General notes	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.
Storage buffer	pH: 7.00 Preservative: 0.01% Thimerosal (merthiolate) Constituents: 1.21% Tris, 0.75% Glycine, 10% Glycerol (glycerin, glycerine)
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee	Our **Abpromise guarantee** covers the use of ab154737 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/500 - 1/3000. Predicted molecular weight: 53 kDa.

Target

Function
Participates in the formation of the lipid-linked precursor oligosaccharide for N-glycosylation. Involved in assembling the dolichol-pyrophosphate-GlcNAc(2)-Man(5) intermediate on the cytoplasmic surface of the ER.

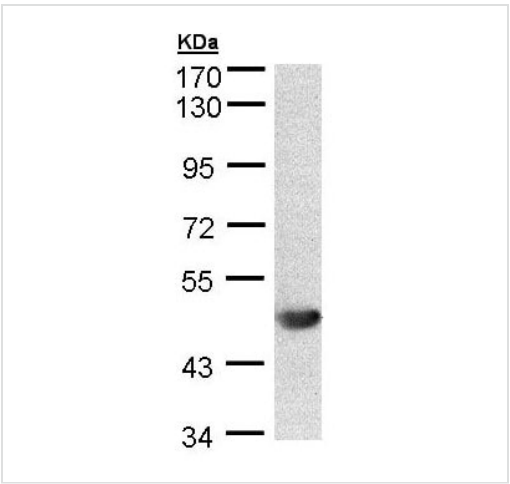
Pathway
Protein modification; protein glycosylation.

Involvement in disease
Defects in ALG1 are the cause of congenital disorder of glycosylation type 1K (CDG1K) [MIM:608540]. CDGs are a family of severe inherited diseases caused by a defect in protein N-glycosylation. They are characterized by under-glycosylated serum proteins. These multisystem disorders present with a wide variety of clinical features, such as disorders of the nervous system development, psychomotor retardation, dysmorphic features, hypotonia, coagulation disorders, and immunodeficiency. The broad spectrum of features reflects the critical role of N-glycoproteins during embryonic development, differentiation, and maintenance of cell functions.

Sequence similarities
Belongs to the glycosyltransferase 1 family.

Cellular localization
Endoplasmic reticulum membrane.

Images



Western blot - Anti-ALG1 antibody (ab154737)

Anti-ALG1 antibody (ab154737) at 1/500 dilution + 293T whole cell lysate at 30 µg

Predicted band size: 53 kDa

7.5% SDS PAGE

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