

Product Name: KD-Validated ALG2 Mouse Monoclonal Antibody**Catalog #: KVA00030**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Mouse
Application	WB,ICC
Reactivity	Human
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG1
Clonality	Mouse mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:200-1:1,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 47.1kDa

Antigen Information

Gene Name	ALG2 ALG2; ALG2 Alpha-1,3/1,6-Mannosyltransferase; HALPG2; CDGLi; NET38; CDG11; Asparagine-Linked Glycosylation 2 Homolog (Yeast, Alpha-1,3-Mannosyltransferase); GDP-Man:Man(1)GlcNAc(2)-PP-Dol Alpha-1,3-Mannosyltransferase; GDP-Man:Man(2)GlcNAc(2)-PP-Dol Alpha-1,6-Mannosyltransferase; GDP-Man:Man(1)GlcNAc(2)-PP-Dolichol Mannosyltransferase; Asparagine-Linked Glycosylation Protein 2 Homolog; Alpha-1,3/1,6-Mannosyltransferase ALG2; FLJ14511; Asparagine-Linked Glycosylation 2, Alpha-1,3-Mannosyltransferase Homolog (S. Cerevisiae); Asparagine-Linked Glycosylation 2 Homolog (S. Cerevisiae, Alpha-1,3-Mannosyltransferase); Asparagine-Linked Glycosylation 2, Alpha-1,3-Mannosyltransferase Homolog; Alpha-1,3-Mannosyltransferase ALG2; Homolog Of Yeast ALG2; EC 2.4.1.132; EC 2.4.1.257; EC 2.4.1; CMSTA3; CMS14
Alternative Names	

Gene ID	85365.0
SwissProt ID	Q9H553
Immunogen	Recombinant protein of human ALG2

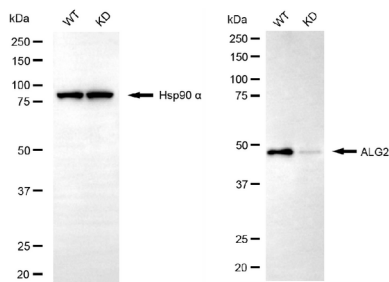
Background

This gene encodes a member of the glycosyltransferase 1 family. The encoded protein acts as an alpha 1,3 mannosyltransferase, mannosylating Man(2)GlcNAc(2)-dolichol diphosphate and Man(1)GlcNAc(2)-dolichol diphosphate to form Man(3)GlcNAc(2)-dolichol diphosphate. Defects in this gene have been associated with congenital disorder of glycosylation type 1h (CDG-1h). Alternative splicing results in multiple transcript variants. [provided by RefSeq, Nov 2008]

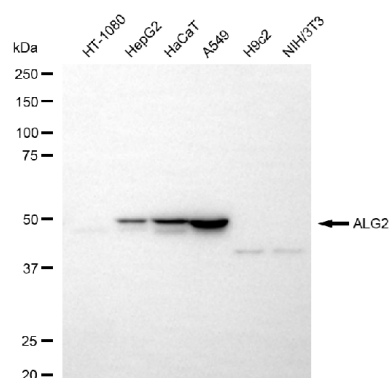
Research Area

Cell Biology, Signal Transduction

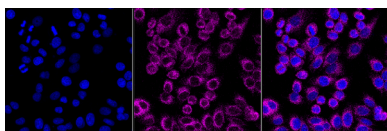
Image Data



Western blotting analysis using ALG2 antibody (KVA00030). ALG2 expression in wild-type (WT) and ALG2 knockdown (KD) HT-1080 cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with ALG2 antibody (KVA00030, 1:2,500) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



Western blotting analysis using ALG2 antibody (KVA00030). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with ALG2 antibody (KVA00030, 1:1,000) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



Immunocytochemical staining of HepG2 cells with ALG2 antibody (KVA00030, 1:1,000). Nuclei were stained blue with DAPI; ALG2 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser intensity and Smart Gain: Medium. Scale bar: 20 µm.