10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

ALG12 Antibody (monoclonal) (M06)

Mouse monoclonal antibody raised against a partial recombinant ALG12.
Catalog # AT1120a

Product Information

Application	WB, E
Primary Accession	Q9BV10
Other Accession	NM_024105
Reactivity	Human, Rat
Host	mouse
Clonality	monoclonal
Isotype	IgG1 Kappa
Clone Names	5E4
Calculated MW	54655

Additional Information

Gene ID	79087
Other Names	Dol-P-Man:Man(7)GlcNAc(2)-PP-Dol alpha-1, 6-mannosyltransferase, Asparagine-linked glycosylation protein 12 homolog, hALG12, Dolichyl-P-Man:Man(7)GlcNAc(2)-PP-dolichyl-alpha-1, 6-mannosyltransferase, Mannosyltransferase ALG12 homolog, Membrane protein SB87, ALG12
Target/Specificity	ALG12 (NP_077010, 369 a.a. ~ 425 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	ALG12 Antibody (monoclonal) (M06) is for research use only and not for use in diagnostic or therapeutic procedures.

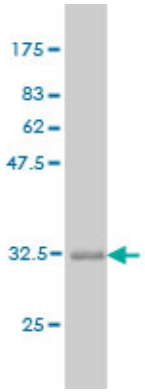
Background

This gene encodes a member of the glycosyltransferase 22 family. The encoded protein catalyzes the addition of the eighth mannose residue in an alpha-1,6 linkage onto the dolichol-PP-oligosaccharide precursor (dolichol-PP-Man(7)GlcNAc(2)) required for protein glycosylation. Mutations in this gene have been associated with congenital disorder of glycosylation type Ig (CDG-Ig)characterized by abnormal N-glycosylation.

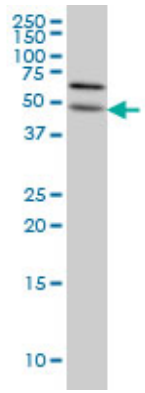
References

Large-scale cDNA transfection screening for genes related to cancer development and progression. Wan D, et al. Proc Natl Acad Sci U S A, 2004 Nov 2. PMID 15498874.The status, quality, and expansion of the NIH full-length cDNA project: the Mammalian Gene Collection (MGC). Gerhard DS, et al. Genome Res, 2004 Oct. PMID 15489334.A genome annotation-driven approach to cloning the human ORFeome. Collins JE, et al. Genome Biol, 2004. PMID 15461802.Congenital disorders of glycosylation: a booming chapter of pediatrics. Jaeken J, et al. Curr Opin Pediatr, 2004 Aug. PMID 15273506.Congenital disorders of glycosylation (CDG): update and new developments. Jaeken J. J Inherit Metab Dis, 2004. PMID 15272470.

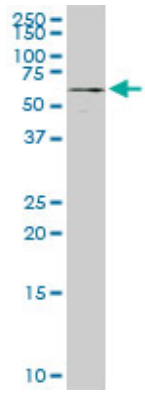
Images



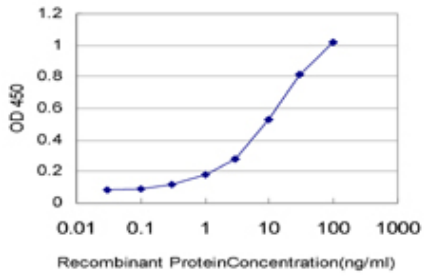
Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (32.01 KDa) .



ALG12 monoclonal antibody (M06), clone 5E3 Western Blot analysis of ALG12 expression in HeLa ((Cat # AT1120a)



ALG12 monoclonal antibody (M06), clone 5E3. Western Blot analysis of ALG12 expression in PC-12 ((Cat # AT1120a)



Detection limit for recombinant GST tagged ALG12 is approximately 0.3ng/ml as a capture antibody.