

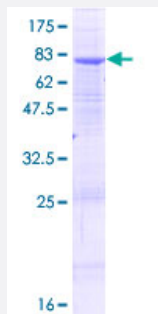
Full-Length

ALG2 (Human) Recombinant Protein (P01)

Catalog # H00085365-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human ALG2 full-length ORF (NP_149078.1, 1 a.a. - 416 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MAEEQGRERDSVPKPSVLFLHPDLGVGGAERLVLDAALALQARGCSVKIHTAHYDPGHCFAES
REL PVR CAGDWLPRGLGWGGRGAAVCAYVRMVFLALYVFLADEEFDVVVCDQVSACIPVFRL
ARRRKILFYCHFDPDLLTKRDSFLKRLYRAPIDWIEEYTTGMADCILVNSQFTAAVFKETFKSLSHI
DPDVLPSLNVTSFDSVVPEKLDDLVPGKGFLLLSINRYERKKNLTALALVQLRGRITSQDW
ERVHLIVAGGYDERVLENVEHYQELKKMVQQSDLGQYVTFLLRSFSDKQKISLLHSCTCVLYTPSN
EHFGVPLEAMYMQCPVIAVNSGGPLESIDHSVTGFLCEPDVHFSEAIEKFIREPSLKATMGLAG
RARVKEKFSPEAFTEQLYRYVTCLLV

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

73.5

Interspecies Antigen Sequence

Mouse (81); Rat (81)

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — ALG2

Entrez GeneID	85365
GeneBank Accession#	NM_033087.3
Protein Accession#	NP_149078.1
Gene Name	ALG2
Gene Alias	CDGII, FLJ14511, hALPG2
Gene Description	asparagine-linked glycosylation 2, alpha-1,3-mannosyltransferase homolog (S. cerevisiae)
Omim ID	607905 607906
Gene Ontology	Hyperlink
Gene Summary	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-II). Alternative splicing results in multiple transcript variants. [provided by RefSeq]
Other Designations	GDP-Man:Man(1)GlcNAc(2)-PP-dolichol mannosyltransferase OTTHUMP00000021785 OTTHUMP00000123474 alpha-1,3-mannosyltransferase ALG2 asparagine-linked glycosylation 2 homolog (S. cerevisiae, alpha-1,3-mannosyltransferase) asparagine-linked glycosylation 2 hom

Pathway

- [Metabolic pathways](#)
- [N-Glycan biosynthesis](#)