

Recombinant Human glucosidase, alpha; neutral AB Protein, His tagged

Cat. No. GANAB-064H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human GANAB protein (Q14697) (Ile 29-Gly 384) with a His tag at the C-terminus was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	29-384aa
Description	This gene encodes the alpha subunit of glucosidase II and a member of the glycosyl hydrolase 31 family of proteins. The heterodimeric enzyme glucosidase II plays a role in protein folding and quality control by cleaving glucose residues from immature glycoproteins in the endoplasmic reticulum. Expression of the encoded protein is elevated in lung tumor tissue and in response to UV irradiation. Mutations in this gene cause autosomal-dominant polycystic kidney and liver disease. Catalytic subunit of glucosidase II that cleaves sequentially the 2 innermost alpha-1,3-linked glucose residues from the Glc (2)Man (9)GlcNAc (2) oligosaccharide precursor of immature glycoproteins. Required for PKD1/Polycystin-1 and PKD2/Polycystin-2 maturation and localization to the cell surface and cilia.
Tag	C-His
Molecular Mass	41.3 kDa

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Endotoxin	Less than 1.0 EU/μg by the LAL method.
Purity	>95% as determined by SDS-PAGE.
Storage	Please avoid repeated freeze-thaw cycles. Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade. It is recommended that aliquot the reconstituted solution to minimize freeze-thaw cycles.
Storage Buffer	Lyophilized from a 0.2 μm filtered solution of PBS, pH7.4, 5% Trehalose, 5% mannitol.
Reconstitution	Reconstitute at 250 μg/mL in sterile water.

GENE INFORMATION

Gene Name	GANAB glucosidase, alpha; neutral AB [Homo sapiens (human)]
Official Symbol	GANAB
Synonyms	GANAB; glucosidase, alpha; neutral AB; neutral alpha-glucosidase AB; G2AN; GlulI; KIAA0088; alpha-glucosidase 2; glucosidase II subunit alpha; alpha glucosidase II alpha subunit; GLUII;
Gene ID	23193
mRNA Refseq	NM_198334
Protein Refseq	NP_938148
MIM	104160

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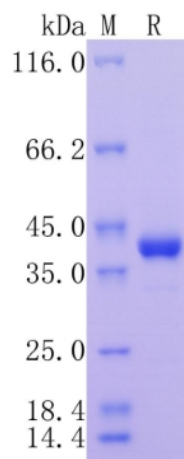
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UniProt ID

Q14697

**Protein on SDS-
PAGE under
reducing (R)
condition.**



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