

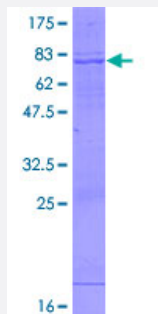
Full-Length

GCNT2 (Human) Recombinant Protein (P01)

Catalog # H00002651-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human GCNT2 full-length ORF (NP_663630.2, 1 a.a. - 402 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MNFWRYCFFAFTLLSVVIFVRFYSSQLSPPKSYEKLNSSSERYFRKTACNHAEKMPVFLWENILP
SPLRSVPCKDYLQNHYSPLSEEEAAFLAYVMVIHKDFDTERLFRAYMPQNVYCVHVDEKA
PAEYKESVRQLLSCFQNAFIASKTESVYAGISRLQADLNCLKDLVASEVPWKYVINTCGQDFPLK
TNREIVQHLKGFKGNITPGVLPPDHAIRTKYVHQEHTDKGGFFVKNTNILKTSPPHQLTYFGTAY
VALTRDFVDFVLRDQRAIDLLQWSKDTYSPDEHFWVTLNRVSGVPGSMPNASWTGNLRAIKWS
DMEDRHGGCHGHYVHGICIYNGDLKWLVNPSPLFANKFELNTYPLTVECLELRHRERTLNQSET
AIQPSWYF

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

72.9

Interspecies Antigen Sequence

Mouse (77); Rat (74)

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 — GCNT2

Entrez GeneID	2651
GeneBank Accession#	NM_145655.3
Protein Accession#	NP_663630.2
Gene Name	GCNT2
Gene Alias	CCAT, GCNT2C, GCNT5, IGNT, IL, MGC163396, NACGT1, NAGCT1, ULG3, bA360O19.2, bA421M1.1
Gene Description	glucosaminyl (N-acetyl) transferase 2, I-branching enzyme (I blood group)
Omim ID	110800 212500 600429
Gene Ontology	Hyperlink
Gene Summary	This gene encodes the enzyme responsible for formation of the blood group I antigen. The i and I antigens are distinguished by linear and branched poly-N-acetyllactosaminoglycans, respectively. The encoded protein is the I-branching enzyme, a beta-1,6-N-acetylglucosaminyltransferase responsible for the conversion of fetal i antigen to adult I antigen in erythrocytes during embryonic development. Mutations in this gene have been associated with adult i blood group phenotype. Alternatively spliced transcript variants encoding different isoforms have been described. [provided by RefSeq]

Other Designations

I beta-1,6-N-acetylglucosaminyltransferase|I-branching beta-1,6-acetylglucosaminyltransferase|li b
lood group|N-acetyllactosaminide beta-1,6-N-acetylglucosaminyltransferase|OTTHUMP0000001
6015|OTTHUMP00000016018|OTTHUMP00000016021|beta-1,6-N-acetylglucosami

Pathway

- [Glycosphingolipid biosynthesis - lacto and neolacto series](#)
- [Metabolic pathways](#)

Disease

- [Genetic Predisposition to Disease](#)
- [Prostate cancer](#)
- [Prostatic Neoplasms](#)