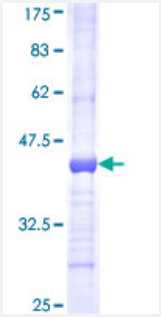
# GBE1 (Human) Recombinant Protein (Q01)

Catalog # H00002632-Q01 Size 25 ug, 10 ug

## Applications




## Specification

| | |
|---|---|
| **Product Description** | Human GBE1 partial ORF ( NP_000149, 605 a.a. - 702 a.a.) recombinant protein with GST-tag at N-terminal. |
| **Sequence** | SEKHEGNKIIAFERAGLLFIFNFHPSKSYTDYRVGTALPGKFKIVLDSDAAEYGGHQRLDHSTDFFS EAFEHNGRPYSLLVYIPSRVALILQNVDLPN |
| **Host** | Wheat Germ (in vitro) |
| **Theoretical MW (kDa)** | 36.52 |
| **Interspecies Antigen Sequence** | Mouse (91); Rat (95) |
| **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. |

Copyright © 2023 Abnova Corporation. All Rights Reserved.

## Applications

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

## Gene Info — GBE1

| | |
|---|---|
| **Entrez GeneID** | 2632 |
| **GeneBank Accession#** | NM_000158 |
| **Protein Accession#** | NP_000149 |
| **Gene Name** | GBE1 |
| **Gene Alias** | GBE |
| **Gene Description** | glucan (1,4-alpha-), branching enzyme 1 |
| **Omim ID** | 232500 607839 |
| **Gene Ontology** | Hyperlink |
| **Gene Summary** | The protein encoded by this gene is a glycogen branching enzyme that catalyzes the transfer of alpha-1,4-linked glucosyl units from the outer end of a glycogen chain to an alpha-1,6 position on the same or a neighboring glycogen chain. Branching of the chains is essential to increase the solubility of the glycogen molecule and, consequently, in reducing the osmotic pressure within cells. Highest level of this enzyme are found in liver and muscle. Mutations in this gene are associated with glycogen storage disease IV (also known as Andersen's disease). [provided by RefSeq |
| **Other Designations** | amylo-(1,4 to 1,6) transglucosidase\|amylo-(1,4 to 1,6) transglycosylase\|glycogen branching enzyme\|glycogen storage disease type IV |

## Pathway

- Metabolic pathways
- Starch and sucrose metabolism

Copyright © 2023 Abnova Corporation. All Rights Reserved.

## Disease

- Asthma
- Cardiovascular Diseases
- Coronary Disease
- Diabetes Mellitus
- Edema
- Genetic Predisposition to Disease
- Metabolic Diseases
- Metabolic Syndrome X
- Obesity
- Tobacco Use Disorder

Copyright © 2023 Abnova Corporation. All Rights Reserved.