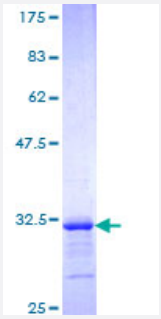
HBG1 (Human) Recombinant Protein (Q01)

Catalog # H00003047-Q01 Size 25 ug, 10 ug

Applications



Specification

Product Description	Human HBG1 partial ORF (NP_000550, 44 a.a. - 106 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	DSFGNLSSASAIMGNPKVKAHGKKVLTSLGDATKHLDDLKGTFAQLSELHCDKLHVDPENFKL
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	32.67
Interspecies Antigen Sequence	Rat (78)
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 — HBG1

Entrez GeneID	3047
GeneBank Accession#	NM_000559
Protein Accession#	NP_000550
Gene Name	HBG1
Gene Alias	HBGA, HBGR, HSGGL1, PRO2979
Gene Description	hemoglobin, gamma A
Omim ID	142200
Gene Ontology	Hyperlink
Gene Summary	The gamma globin genes (HBG1 and HBG2) are normally expressed in the fetal liver, spleen and bone marrow. Two gamma chains together with two alpha chains constitute fetal hemoglobin (Hb F) which is normally replaced by adult hemoglobin (HbA) at birth. In some beta-thalassemias and related conditions, gamma chain production continues into adulthood. The two types of gamma ch ains differ at residue 136 where glycine is found in the G-gamma product (HBG2) and alanine is f ound in the A-gamma product (HBG1). The former is predominant at birth. The order of the genes in the beta-globin cluster is: 5'-epsilon -- gamma-G -- gamma-A -- delta -- beta--3'. [provided by R efSeq
Other Designations	A-gamma globin|gamma A hemoglobin|gamma globin|hemoglobin gamma-a chain|hemoglobin, g amma, regulator of

Disease

- beta-Thalassemia