Recombinant Human HBG2 Protein, GST-tagged

Cat. No. HBG2-4603H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human HBG2 full-length ORF (AAH10914.1, 1 a.a. - 147 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	Wheat Germ
Description	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 (HbF) 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 chains differ at residue 136 where glycine is found in the G-gamma product (HBG2) and alanine is found 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 RefSeq
Molecular Mass	42.57 kDa
AA Sequence	MGHFTEEDKATITSLWGKVNVEDAGGETLGRLLVVYPWTQRFFDSFGNLSSASAIM GNPKVKAHGKKVLTSLGDAIKHLDDLKGTFAQLSELHCDKLHVDPENFKLLGNVLVT VLAIHFGKEFTPEVQASWQKMVTGVASALSSRYH
Applications	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein)

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	Antibody Production Protein Array
Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -8 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name	HBG2 hemoglobin subunit gamma 2 [Homo sapiens (human)]
Official Symbol	HBG2
Synonyms	HBG2; hemoglobin subunit gamma 2; TNCY; HBG-T1; hemoglobin subunit gamma-2; G-gamma globin Paulinia; abnormal hemoglobin; gamma-2-globin; hb F Ggamma; hemoglobin gamma-2 chain; hemoglobin gamma-G chain; hemoglobin, gamma G; methemoglobin
Gene ID	3048
mRNA Refseq	NM_000184
Protein Refseq	NP_000175
MIM	142250
UniProt ID	P69892

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