Recombinant Human HBB, GST-tagged

Cat. No. HBB-13679H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human HBB protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.
Species	Human
Source	E.coli
ProteinLength	1-147a.a.
Description	The alpha (HBA) and beta (HBB) loci determine the structure of the 2 types of polypeptide chains in adult hemoglobin, Hb A. The normal adult hemoglobin tetramer consists of two alpha chains and two beta chains. Mutant beta globin causes sickle cell anemia. Absence of beta chain causes beta-zero-thalassemia. Reduced amounts of detectable beta globin causes beta-plus-thalassemia. The order of the genes in the beta-globin cluster is 5-epsilon -- gamma-G -- gamma-A -- delta -- beta--3.
Storage	The protein is stored in PBS buffer at -20℃. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na2HPO4,17mM NaH2PO4, 68mM NaCl, pH8.) added with 100mM GSH and 1% Triton X-100,15%glycerol.

GENE INFORMATION

Gene Name	HBB hemoglobin, beta [Homo sapiens]

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Official Symbol	HBB
Synonyms	HBB; hemoglobin, beta; hemoglobin subunit beta; beta globin; CD113t C; HBD; beta globin chain; hemoglobin beta chain; CD113t-C; beta-globin;
Gene ID	3043
mRNA Refseq	NM_000518
Protein Refseq	NP_000509
UniProt ID	P68871
Chromosome Location	11p15.5
Pathway	African trypanosomiasis, organism-specific biosystem; African trypanosomiasis, conserved biosystem; Factors involved in megakaryocyte development and platelet production, organism-specific biosystem; Folate Metabolism, organism-specific biosystem; Hemostasis, organism-specific biosystem; Malaria, organism-specific biosystem; Malaria, conserved biosystem;
Function	contributes_to haptoglobin binding; heme binding; hemoglobin binding; metal ion binding; oxygen binding; oxygen transporter activity; contributes_to peroxidase activity; protein binding;

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