

# Recombinant Full Length Human HBB Protein, GST-tagged

**Cat. No.** HBB-3491HF    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Human HBB full-length ORF (BAG34767.1, 1 a.a. - 147 a.a.) recombinant protein with GST-tag at N-terminal.                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Source</b>           | In Vitro Cell Free System                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>ProteinLength</b>    | 147 amino acids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Description</b>      | 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. [provided by RefSeq] |
| <b>Molecular Mass</b>   | 42.4 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>AA Sequence</b>      | MVHLTPEEKSAVTALWGKVVNDEVGGEALGRLLVVYPWTQRFFESFGDLSTPDAV<br>MGNPKVKAHGKKVLGAFSDGLAHLNLTGTFATLSELHCDKLHVDPENFRLLGNVL<br>VCVLAHHFGKEFTPPVQAAYQKVVAGVANALAHKYH                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Applications</b>     | Enzyme-linked Immunoabsorbent Assay<br>Western Blot (Recombinant protein)                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

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|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
|                         | Antibody Production<br>Protein Array                                                                                                         |
| <b>Notes</b>            | Best use within three months from the date of receipt of this protein.                                                                       |
| <b>Storage</b>          | Store at -8 centigrade. Aliquot to avoid repeated freezing and thawing.                                                                      |
| <b>Storage Buffer</b>   | 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.                                                                     |
| <b>GENE INFORMATION</b> |                                                                                                                                              |
| <b>Gene Name</b>        | HBB hemoglobin, beta [ Homo sapiens ]                                                                                                        |
| <b>Official Symbol</b>  | HBB                                                                                                                                          |
| <b>Synonyms</b>         | HBB; hemoglobin, beta; hemoglobin subunit beta; beta globin; CD113t C; HBD; beta globin chain; hemoglobin beta chain; CD113t-C; beta-globin; |
| <b>Gene ID</b>          | 3043                                                                                                                                         |
| <b>mRNA Refseq</b>      | NM_000518                                                                                                                                    |
| <b>Protein Refseq</b>   | NP_000509                                                                                                                                    |
| <b>MIM</b>              | 141900                                                                                                                                       |
| <b>UniProt ID</b>       | P68871                                                                                                                                       |

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