

## Human Hemoglobin (HB) ELISA Kit | HB elisa kit

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CATALOG #  
AAA20458

REACTIVITY  
Human

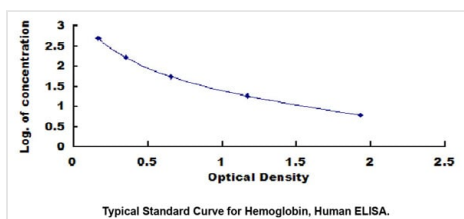
### PRODUCT SYNONYMS

Hemoglobin (HB); Human Hemoglobin (HB) ELISA Kit; Hgb; Haemoglobin; Heterotetramer(alpha beta)<sub>2</sub>; Heterotetramer(ab)<sub>2</sub>; HB elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Specificity             | This assay has high sensitivity and excellent specificity for detection of hemoglobin. No significant cross-reactivity or interference between hemoglobin and analogues was observed.                                                                                                                                                                                                                                                                                                                 |
| Sequence Length         | 165                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Assay Type              | Quantitative Competitive                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Samples                 | Human serum, plasma, tissue homogenates, erythrocyte lysates, cell culture supernates and other biological fluids                                                                                                                                                                                                                                                                                                                                                                                     |
| Detection Range         | 6.17-500ug/mL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Sensitivity             | < 2.62ug/mL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Intra-assay Precision   | Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level hemoglobin were tested 20 times on one plate, respectively. Intra-Assay: CV<10%                                                                                                                                                                                                                                                                                                                          |
| Inter-assay Precision   | Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level hemoglobin were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%                                                                                                                                                                                                                                                                                        |
| Preparation and Storage | <p>The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition.</p> <p>To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.</p> |

### IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

|                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for HB elisa kit | <p>Principle of the Assay: This assay employs the competitive inhibition enzyme immunoassay technique. A monoclonal antibody specific to hemoglobin has been pre-coated onto a microplate. A competitive inhibition reaction is launched between biotin labeled hemoglobin and unlabeled hemoglobin (Standards or samples) with the pre-coated antibody specific to hemoglobin. After incubation the unbound conjugate is washed off. Next, avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. The amount of bound HRP conjugate is reverse proportional to the concentration of hemoglobin in the sample. After addition of the substrate solution, the intensity of color developed is reverse proportional to the concentration of hemoglobin in the sample.</p> <p>Intended Uses: The kit is a competitive inhibition enzyme immunoassay technique for the in vitro quantitative measurement of hemoglobin in human serum, plasma, tissue homogenates, erythrocyte lysates, cell culture supernates and other biological fluids.</p> |
| Product Categories/Family for HB elisa kit   | Metabolic pathway; Infection immunity; Hematology; Neuroscience                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

NCBI AND UNIPROT INFORMATION

|                           |                |
|---------------------------|----------------|
| NCBI GI #                 | 162462053      |
| NCBI GeneID               | 541815         |
| NCBI Accession #          | NP_001104966.1 |
| NCBI GenBank Nucleotide # | NM_001111496.1 |
| NCBI Official Full Name   | hemoglobin     |
| NCBI Official Symbol      | LOC541815      |
| NCBI Protein Information  | hemoglobin     |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.