



Anti-HBB (native protein) polyclonal antibody (CPBT-65894SH)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview

Sheep anti Human Hemoglobin antibody recognizes human hemoglobin, a 66kDa metalloprotein composed of four globular subunits each of which is associated with an iron-containing heme group. The heme group is involved with oxygen transport from the lungs to the tissues and the globin molecule plays a major role in transporting carbon dioxide in the reverse direction. Hemoglobin is found in the erythrocytes of all vertebrates. There is a wide diversity of amino acid sequences and substitutions within mammalian hemoglobins, however the molecular weight is generally around 66kDa with an iron content of about 0.34%. The level of hemoglobin in the blood is used in the diagnosis of anemia; levels in the feces are indicative of various clinical conditions. Sheep anti Human Hemoglobin antibody shows;10% cross-reactivity with bovine hemoglobin.

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|---------------------------|---------------------------|
| Specificity | HBB |
| Immunogen | Native, from erythrocytes |
| Isotype | IgG |
| Source/Host | Sheep |
| Species Reactivity | Human, Bovine |
| Conjugate | Unconjugated |
| Applications | ELISA; WB |
| Format | Purified IgG - liquid |
| Size | 1 ml |
| Preservative | 0.09% Sodium Azide |

Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

GENE INFORMATION

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| Gene Name | HBB hemoglobin, beta [Homo sapiens (human)] |
| Official Symbol | HBB |
| Synonyms | HBB; hemoglobin, beta; CD113t-C; beta-globin; hemoglobin subunit beta; beta globin chain; hemoglobin beta chain; |
| Entrez Gene ID | 3043 |
| Protein Refseq | NP_000509 |
| UniProt ID | P69905 |
| Chromosome Location | 11p15.5 |
| Pathway | African trypanosomiasis; Binding and Uptake of Ligands by Scavenger Receptors; Erythrocytes take up carbon dioxide and release oxygen; Erythrocytes take up oxygen and release carbon dioxide; Factors involved in megakaryocyte development and platelet production; Folate Metabolism; Hemostasis; Malaria; |
| Function | contributes_to haptoglobin binding; heme binding; hemoglobin binding; iron ion binding; oxygen binding; oxygen transporter activity; contributes_to peroxidase activity; protein binding; |
