Goat Anti-Human Hemoglobin PAb, HRP-Conjugation

Cat. No. CPBTT30932GH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	
Species	Human
Source	Goat
ProductOverview	Polyclonal Antibody to Hemoglobin(HRP), Involved in oxygen transport from the lung to the various peripheral tissues.
Antigen Description	Defects in HBA1/HBA2 may be a cause of Heinz body anemias. This is a form of non-spherocytic hemolytic anemia of Dacie type 1.The hemoglobin demonstrates heat lability. Heinz bodies are observed also with the Ivemark syndrome (asplenia with cardiovascular anomalies) and with glutathione peroxidase deficiency. The hallmark of alpha-thalassemia is an imbalance in globin-chain production in the adult HbA molecule. Due to the complete absence of alpha chains, the predominant fetal hemoglobin is a tetramer of gamma-chains (Bart hemoglobin) that has essentially no oxygen carrying capacity.
Immunogen	Human Hemoglobin.
Host animal	Goat
Cross reactivity	Human. Predicted to work with Rabbit, Dog, Chimpanzee, Rhesus monkey
Isotype	IgG

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Conjugation	HRP
Conjugation notes	Molar enzyme/antibody protein ratio is 4:1.
Application	ICC; ELISA; WB
Storage Buffer	Preservative: 0.01% Thimerosal (merthiolate); Constituents: 0.1M Sodium chloride, 50mM HEPES. pH 7.1
Positive control	recombinant human hemoglobin
Specificity	The antibody has been tested in ELISA and IEP with a Human Hemaglobin Calibrator/Standard but has yet to be tested against endogenous protein.
Tissue Specificity	Red blood cells.
Sequence similarities	Belongs to the globin family.
Post-translationalmodifications	The initiator Met is not cleaved in variant Thionville and is acetylated
Purity	Immunogen affinity purified
Purification notes	Antibody concentration was determined by extinction coefficient prior to conjugation: absorbance at 280 nm of 1.4 equals 1.0 mg of IgG.
Storage	Store at +4°C.
Background	Introduction: Hemoglobin (also spelled haemoglobin and abbreviated Hb or Hgb) is the iron- containing oxygen-transport metalloprotein in the red blood cells of all vertebrates(with the exception of the fish family Channichthyidae) as well as the t

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	issues of some invertebrates. Hemoglobin in the blood carries oxygen from th e respiratory organs (lungs or gills) to the rest of the body (i.e. the tissues) wh ere it releases the oxygen to burn nutrients to provide energy to power the fun ctions of the organism, and collects the resultant carbon dioxide to bring it ba ck to the respiratory organs to be dispensed from the organism.
Keywords	Hemoglobin; Hb; Hgb; Alpha globin; Beta globin; CD113t C; CD31; Gamma 1 globin; Hb F Agamma; HBA 1; HBA 2; HBA; HBA_HUMAN; Alpha-glob in; HBA1; HBA2; HBB; Hbb-y; HBD; Hbe1; HBG 1; HBG; HBG1; HBGA; HBGR; Hemoglobin alpha; Hemoglobin alpha chain; Hemoglobin alpha locu s; Hemoglobin beta; Hemoglobin beta chain; Hemoglobin beta chain comple x; Hemoglobin beta locus; Hemoglobin gamma 1 chain; Hemoglobin gamma A; Hemoglobin gamma A chain; Hemoglobin gamma; Hemoglobin subunit al pha; Hemoglobin subunit gamma 1; HSGGL1; MGC126895; PRO2979

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