

Pig Haptoglobin ELISA Kit | HP elisa kit

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CATALOG #
AAA76932

REACTIVITY
Pig

PRODUCT SYNONYMS

Haptoglobin; Pig Haptoglobin ELISA Kit; Pig Haptoglobin; HP elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Pig
Samples	Immunoperoxidase Assay for Determination of Haptoglobin in Pig Samples
Assay Type	Sandwich
Intended Uses	The Haptoglobin test kits are a highly sensitive two-site enzyme linked immunoassay (ELISA) for measuring Haptoglobin in biological fluid of Pigs.
Preparation and Storage	Store at 4 degree C.

ADDITIONAL INFORMATION

Related Product Information for HP elisa kit	Principle of the Assay: The principle of the double antibody sandwich ELISA is represented in Figure 1. In this assay the Haptoglobin present in samples reacts with the anti-Haptoglobin antibodies which have been adsorbed to the surface of polystyrene microtitre wells. After the removal of unbound proteins by washing, anti-Hp antibodies conjugated with horseradish peroxidase (HRP), are added. These enzyme-labeled antibodies form complexes with the previously bound Hp. Following another washing step, the enzyme bound to the immunosorbent is assayed by the addition of a chromogenic substrate, 3,3',5,5'-tetramethylbenzidine (TMB). The quantity of bound enzyme varies directly with the concentration of Hp in the sample tested; thus, the absorbance, at 450 nm, is a measure of the concentration of Hp in the test sample. The quantity of Hp in the test sample can be interpolated from the standard curve constructed from the standards, and corrected for sample dilution. Background: Acute phase proteins are plasma proteins which increase in concentration following infection, inflammation or trauma. The first acute phase protein to be recognized was discovered in Human by Tillet and Frances in 19301. Haptoglobin (Hp) is a heterogeneous plasma protein mostly synthesized by the liver. The haptoglobin monomer consist of two heavy chains, beta chains (40 kD) and two light chains, alpha chains, alpha 1 (9 kD) and alpha 2 (16 kD) that are linked disulfide bonds. The three major haptoglobin types are; Hp1-1 which is monomeric (98kD), Hp1-2 is polymeric at about 200 kD, and Hp2-2 at about 400 kD. The levels in serum rise quickly following acute tissue damage within 24 to 48 hours and also fall very rapidly once the stimulus is removed. In fact, Hp level are decreased in hemolytic anemia. Hp has a high affinity for hemoglobin (Hb) and its function appears to be to prevent loss of Hb in urine which would lead to loss of iron. Investigations over the past few years have shown that quantification of Hp in plasma or serum can provide valuable information in the detection, prognosis, and monitoring of disease not only in Human, but in companion animals and farm herds as well2.
Product Categories/Family for HP elisa kit	ELISA Kit

NCBI AND UNIPROT INFORMATION

NCBI GI #	386783
NCBI GeneID	3240
UniProt Accession #	P00738 ; P00737 ; Q0VAC4 ; Q2PP15 ; Q3B7J0 ; Q6LBY9 ; Q9UC67 ; B0AZL5 ; Q0VAC5 ; Q6NSB4 ; Q6PEJ8

Molecular Weight	45,205 Da
NCBI Official Full Name	haptoglobin
NCBI Official Synonym Full Names	haptoglobin
NCBI Official Symbol	HP
NCBI Official Synonym Symbols	BP; HPA1S; HP2ALPHA2; MGC111141; HP
NCBI Protein Information	haptoglobin; binding peptide; haptoglobin alpha(1S)-beta; haptoglobin alpha(2FS)-beta; haptoglobin, beta polypeptide; haptoglobin, alpha polypeptide
UniProt Protein Name	Haptoglobin
UniProt Gene Name	HP
UniProt Entry Name	HPT_HUMAN

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.

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Online datasheet: <https://www.aaabiotech.com/pig-elisa-kits/haptoglobin/76932>