Human HP Antibody Pair SetSet

Catalog No. E-KAB-0195 **Applications** ELISA
Synonyms Hpt, BP, Hp2-Alpha, HPA1S

Kit components & Storage

Title	Specifications	Storage
Human HP Capture Antibody	1 vial, 100 μ g	Store at -20℃. Avoid freeze/thaw cycles.
Human HP Detection Antibody (Biotin)	1 vial, 50 μL	Store at -20℃. Avoid freeze/thaw cycles.

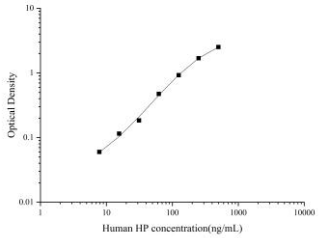
Note: Centrifuge before opening to ensure complete recovery of vial contents.

Product Information

Items		Characteristic (E-KAB-0195)	
		Human HP Capture Antibody	Human HP Detection Antibody (Biotin)
Immunogen Information	Immunogen	Native Protein	Native Protein
	Swissprot	P00738	
Product details	Reactivity	Human	Human
	Host	Goat	Goat
	Conjugation	Unconjugated	Biotin
	Concentration	0.5 mg/mL	/
	Buffer	PBS with 0.04% Proclin 300, 50% glycerol, pH 7.4	PBS with 0.04% Proclin 300; 1% protective protein; 50% glycerol; pH 7.4
	Purify	Antigen Affinity	Antigen Affinity
	Specificity	Detects Human HP in ELISAs.	

Applications

Human HP Sandwich ELISA Assay:

	Recommended Concentration/Dilution	Reagent	Images
ELISA Capture	0.5-4 μg/mL	Human HP Capture Antibody	
ELISA Detection	1:1000-1:10000	Human HP Detection Antibody (Biotin)	

Note: This standard curve is only for demonstration purposes. A standard curve should be generated for each assay!

Background

HP(Haptoglobin) is also named as zonulin and belongs to the peptidase S1 family. HP,a plasma glycoprotein that binds free hemoglobin,has a tetrameric structure of 2 alpha(16 kDa and 9 kDa) and 2 beta(40 kDa) polypeptides that are covalently associated by disulfide bonds. In most species,apart from ruminants,Hp has a molecular mass of 100 kDa,consisting of two subunits of 40 kDa and two subunits of 9 kDa,although in a few species,such as man,genetic variant of Hp forms polymers of higher mass. Recent studies of haptoglobin show that certain oligosaccharide structures predominate in different diseases. For example,a highly-fucosylated structure is found in breast cancer and ovarian cancer,highly-sialylated structures in Crohn's disease and highly branched structures in alcoholic liver disease and fucosylated haptoglobin is a good serum marker for pancreatic cancer.