

Haptoglobin Recombinant monoclonal antibody

Catalog Number: 82812-11-RR

Basic Information

Catalog Number:	82812-11-RR	GenBank Accession Number:	BC121125	Purification Method:	Protein A purification
Source:	Rabbit	GeneID (NCBI):	3240	CloneNo.:	252176B3
Isotype:	IgG	UNIPROT ID:	P00738	Recommended Dilutions:	WB: 1:5000-1:50000
Immunogen Catalog Number:	EG6628	Full Name:	haptoglobin		
		Observed MW:	42 kDa		

Applications

Tested Applications:	WB, ELISA	Positive Controls:	
Species Specificity:	human	WB :	human plasma,

Background Information

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(PMID:2361363). 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.(PMID:16385567).

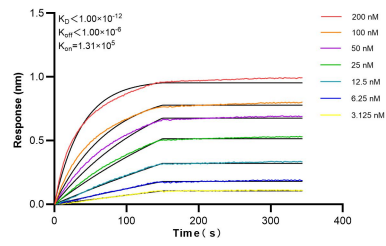
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 82812-11-RR (HP antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Biolayer interferometry (BLI) kinetic assays of 82812-11-RR against Human Haptoglobin were performed. The affinity constant is below 1 pM.