



Anti-Haptoglobin monoclonal antibody, clone 3G5 (CABT-18343MH)

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

PRODUCT INFORMATION

Antigen Description

This gene encodes a preproprotein, which is processed to yield both alpha and beta chains, which subsequently combine as a tetramer to produce haptoglobin. Haptoglobin functions to bind free plasma hemoglobin, which allows degradative enzymes to gain access to the hemoglobin, while at the same time preventing loss of iron through the kidneys and protecting the kidneys from damage by hemoglobin. Mutations in this gene and/or its regulatory regions cause ahaptoglobinemia or hypohaptoglobinemia. This gene has also been linked to diabetic nephropathy, the incidence of coronary artery disease in type 1 diabetes, Crohn's disease, inflammatory disease behavior, primary sclerosing cholangitis, susceptibility to idiopathic Parkinson's disease, and a reduced incidence of Plasmodium falciparum malaria. A similar duplicated gene is located next to this gene on chromosome 16. Multiple transcript variants encoding different isoforms have been found for this gene.

Mouse monoclonal antibody raised against native HP.

Target	Haptoglobin
Immunogen	Native purified human HP.
Isotype	IgG1
Source/Host	Mouse
Species Reactivity	Human
Clone	3G5
Conjugate	Unconjugated
Applications	WB,ELISA
Format	Liquid

Size	100 µl
Buffer	In HEPES, 150 mM NaCl (50% glycerol, 0.01% BSA, 0.03% sodium azide)
Preservative	0.03% Sodium Azide
Storage	At -20°C for one year.

GENE INFORMATION

Gene Name	HP haptoglobin [Homo sapiens]
Official Symbol	HP
Synonyms	haptoglobin; binding peptide; BP; haptoglobin alpha(1S)-beta; HP2ALPHA2; haptoglobin alpha(2FS)-beta; HPA1S; haptoglobin, alpha polypeptide; MGC111141; haptoglobin, beta polypeptide
Entrez Gene ID	3240
Protein Refseq	NP_001119574
UniProt ID	P00738
Chromosome Location	16q22.2
Pathway	amb2 Integrin signaling, organism-specific biosystem
Function	catalytic activity; hemoglobin binding; serine-type endopeptidase activity