

ARG82369 Mouse Haptoglobin ELISA Kit

Package: 96 wells
Store at: 4°C

Component

Cat. No.	Component Name	Package	Temp
ARG82369-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG82369-002	Standard	2 X 100 ng/vial	4°C
ARG82369-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG82369-004	Antibody conjugate concentrate (100X)	1 vial (100 µl)	4°C
ARG82369-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG82369-006	HRP-Streptavidin concentrate (100X)	1 vial (100 µl)	4°C
ARG82369-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG82369-008	25X Wash buffer	20 ml	4°C
ARG82369-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG82369-010	STOP solution	10 ml (Ready to use)	4°C
ARG82369-011	Plate sealer	4 strips	Room temperature

Summary

Product Description	ARG82369 Mouse Haptoglobin ELISA Kit is an Enzyme Immunoassay kit for the quantification of Mouse Haptoglobin in serum, plasma (EDTA, heparin) and cell culture supernatants.
Tested Reactivity	Ms
Tested Application	ELISA
Target Name	Haptoglobin
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	0.78 ng/ml
Sample Type	Serum, plasma (EDTA, heparin) and cell culture supernatants.
Standard Range	1.56 - 100 ng/ml
Sample Volume	100 µl
Precision	Intra-Assay CV: 6.6% Inter-Assay CV: 6.9%

Alternate Names HPA1S; Haptoglobin; BP; HP2ALPHA2; Zonulin

Application Instructions

Assay Time ~ 5 hours

Properties

Form 96 well

Storage instruction Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol HP

Gene Full Name haptoglobin

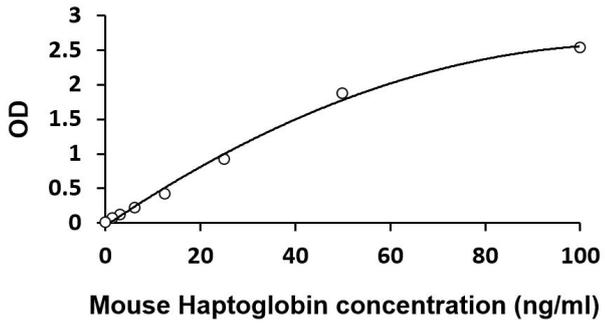
Background This gene encodes a preproprotein, which is processed to yield both alpha and beta chains, which subsequently combine as a tetramer to produce haptoglobin. Haptoglobin functions to bind free plasma hemoglobin, which allows degradative enzymes to gain access to the hemoglobin, while at the 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. The protein encoded also exhibits antimicrobial activity against bacteria. 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. [provided by RefSeq, Oct 2014]

Function As a result of hemolysis, hemoglobin is found to accumulate in the kidney and is secreted in the urine. Haptoglobin captures, and combines with free plasma hemoglobin to allow hepatic recycling of heme iron and to prevent kidney damage. Haptoglobin also acts as an Antimicrobial; Antioxidant, has antibacterial activity and plays a role in modulating many aspects of the acute phase response. Hemoglobin/haptoglobin complexes are rapidly cleared by the macrophage CD163 scavenger receptor expressed on the surface of liver Kupfer cells through an endocytic lysosomal degradation pathway.

Uncleaved haptoglobin, also known as zonulin, plays a role in intestinal permeability, allowing intercellular tight junction disassembly, and controlling the equilibrium between tolerance and immunity to non-self antigens. [UniProt]

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ARG82369 Mouse Haptoglobin ELISA Kit standard curve image

ARG82369 Mouse Haptoglobin ELISA Kit results of a typical standard run with optical density reading at 450 nm.