

Mouse Haptoglobin (HP) ELISA Kit-Sandwich

Cat. No.: EK5F325

Product Type: Animal Immunoassay Kits

Size: 48T;96T

Product Overview

BioVenic Mouse Haptoglobin (HP) ELISA Kit-Sandwich is designed for the quantitative determination of Mouse HP in serum, plasma, tissue homogenate, cell culture supernatant, cell lysate, and other biological fluids using a Sandwich ELISA method. For research use only.

Specifications

Assay Type	ELISA-Sandwich
Specificity	The assay kit is specific for Mouse Haptoglobin (HP).
Target Species	Mouse
Species Reactivity	Mouse
Detection Range	31.25-2000 ng/mL
Reproducibility	Intra-Assay: CV < 10%; Inter-Assay: CV < 12%
Assay Time	Around 90 min
Sample Requirement	Serum, plasma, tissue homogenate, cell culture supernatant, cell lysate, and other biological fluids.

Target Information

Due to hemolysis, hemoglobin tends to accumulate in the kidneys and is excreted in the urine. Haptoglobin captures and binds free plasma hemoglobin, facilitating hepatic recycling of heme iron and preventing kidney damage. Additionally, haptoglobin acts as an antioxidant with antibacterial properties and plays a role in modulating various aspects of the acute phase response. Hemoglobin/haptoglobin complexes are quickly cleared by the CD163 scavenger receptor on macrophages, specifically on liver Kupffer cells, through an endocytic lysosomal degradation pathway. In mice, haptoglobin functions include antioxidation, iron recovery, inflammation regulation, organ protection, cardiovascular disease risk reduction, and involvement in tumorigenesis. In a mouse liver cancer model, haptoglobin reduces tumor occurrence by inhibiting inflammatory responses and oxidative stress. The expression level of haptoglobin is closely linked to the development and progression of chronic inflammation-related diseases.

Target/Biomarker	Mouse HP
Target Synonym	HP; Hp2-Alpha; Alpha-2-Macroglobulin; Zonulin; Hpt; Haptoglobin

Gene ID [15439](#)

UniProt ID [Q61646](#)

Shipping and Storage

This product is shipped with gel ice packs. It is recommended to store at 2-8 °C (Up to 6 months).

The product is for research use only. Not for commercial, prophylactic, diagnostic, or therapeutic applications. Please determine the purpose of the product before purchasing. For further information and inquiry, please contact us.