

# Mouse Haptoglobin Antibody

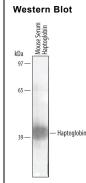
Antigen Affinity-purified Polyclonal Sheep IgG Catalog Number: AF4409

DESCRIPTION		
Species Reactivity	Mouse	
Specificity	Detects mouse Haptoglobin in direct ELISAs and Western blots. In direct ELISAs, approximately 20% cross-reactivity with human Haptoglobin is observed.	
Source	Polyclonal Sheep IgG	
Purification	Antigen Affinity-purified	
Immunogen	Mouse serum-derived Haptoglobin	
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.	

## **APPLICATIONS**

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Western Blot	1 μg/mL	See Below



Detection of Mouse Haptoglobin by Western Blot. Western blot shows samples of purified mouse Haptoglobin (5 ng/lane). PVDF membrane was probed with 1 μg/mL Sheep Anti-Mouse Haptoglobin Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4409) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). A specific band for Haptoglobin was detected at approximately 45 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 8.

### PREPARATION AND STORAGE

Reconstitution Reconstitute at 0.2 mg/mL in sterile PBS. Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

\*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C

Stability & Storage Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

Haptoglobin is a 45-48 kDa acute phase glycoprotein that is a naturally inactive member of the peptidase S1 family of serine proteases. It is secreted by multiple cell types and protects tissues from hemoglobin-mediated oxidative damage. Mature mouse (pro)haptoglobin is 329 amino acids (aa) in length. Proteolytic cleavage between Arg102-Ile103 creates disulfide-linked α- and β-chains, which subsequently homodimerize through α-chain linkages to create a tetramer. Circulating haptoglobin is 70% tetramer and 30% unprocessed (pro)haptoglobin. Mouse (pro)haptoglobin shares 90% and 80% aa identity with rat and human (pro)haptoglobin, respectively.

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