

DESCRIPTION

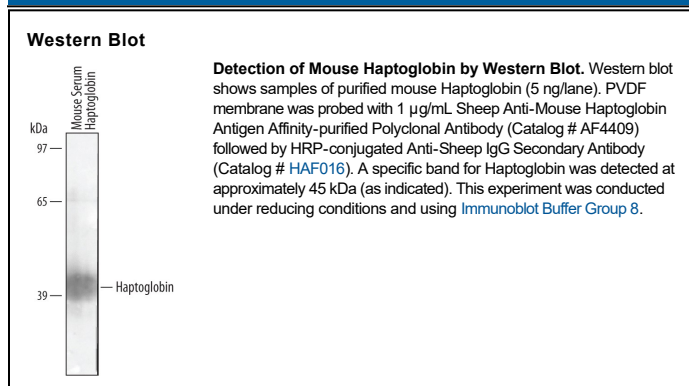
Species Reactivity	Mouse
Specificity	Detects mouse Haptoglobin in direct ELISAs and Western blots. In direct ELISAs, approximately 20% cross-reactivity with human Haptoglobin is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse serum-derived Haptoglobin
Formulation	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

DATA



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. <ul style="list-style-type: none"> 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.

BACKGROUND

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.