

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
Conjugate	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

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.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

Stability & Storage Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

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.

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