

Datasheet: MCA6234GA

BATCH NUMBER 64671952

Description:	MOUSE ANTI HUMAN HAPTOGLOBIN
Specificity:	HAPTOGLOBIN
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	E07-10E9
Isotype:	IgG1
Quantity:	0.1 mg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
ELISA	▪			1.0 ug/ml

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

Target Species	Human
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)
Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	Native haptoglobin purified from human plasma

External Database Links	UniProt: P00738 Related reagents Entrez Gene: 3240 HP Related reagents
Fusion Partners	Cell fusion between immunized BALB/c mouse spleen cells and mouse myeloma SP2/0
Specificity	<p>Mouse anti Human haptoglobin antibody, clone E07-10E9, recognizes haptoglobin, an alpha sialoglycoprotein. Synthesis of haptoglobin is induced by IL-6, IL-1 beta and TNF and it is produced as a pro-protein before it is cleaved in the endoplasmic reticulum by C1r-like protein, to generate the mature form (Redmond et al. 2018). Haptoglobin is composed of two peptide chains referred to as the alpha and beta chains. It is largely expressed by hepatocytes, but is also expressed to a lesser extent in lung, skin and kidney tissues (Vanuytsel et al. 2013). A key role of haptoglobin is its hemoglobin binding capacity, which is utilized during hemolysis to prevent iron loss and subsequent kidney damage. The haptoglobin-hemoglobin complex is removed by the CD163 receptor expressed on the surface of monocytes and macrophages (Sadrzadeh & Bozorgmehr 2004). Haptoglobin also plays roles in the innate and adaptive immune system and has anti-inflammatory activity such as inhibiting monocyte production of TNF, IL-11 and IL-12 (Arredouani et al. 2005).</p> <p>The purified Mouse anti Human haptoglobin antibody, clone E07-10E9 (MCA6234GA) can be used as a capture antibody in a sandwich ELISA with the biotinylated Mouse anti Human haptoglobin antibody, clone C08-1E10 (MCA6235B) as the detection antibody.</p>
Storage	<p>This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.</p>
Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA6234GA
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

- Goat Anti Mouse IgG IgA IgM (STAR87...) [HRP](#)
- Goat Anti Mouse IgG (STAR70...) [FITC](#)
- Rabbit Anti Mouse IgG (STAR13...) [HRP](#)

Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (STAR77...)	HRP
Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight®488 , DyLight®550 , DyLight®650 , DyLight®680 , DyLight®800 , FITC , HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

ELISA Matched Pair - Detection Antibody

[MOUSE ANTI HUMAN HAPTOGLOBIN:Biotin \(MCA6235B\)](#)

Product inquiries: www.bio-rad-antibodies.com/technical-support

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets
'M390648:210924'

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