

Datasheet: MCA6235B

BATCH NUMBER 100005269

Description:	MOUSE ANTI HUMAN HAPTOGLOBIN:Biotin
Specificity:	HAPTOGLOBIN
Format:	Biotin
Product Type:	Monoclonal Antibody
Clone:	C08-1E10
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 conjugated to Biotin - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative	0.09% Sodium Azide (NaN ₃)
Stabilisers	1% Bovine Serum Albumin
Approx. Protein Concentrations	IgG concentration 0.1 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

Mouse anti Human haptoglobin antibody, clone C08-1E10, 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](#)).

The biotinylated Mouse anti Human haptoglobin antibody, clone C08-1E10 (MCA6235B) can be used as a detection antibody in a sandwich ELISA with the purified Mouse anti Human haptoglobin antibody, clone E07-10E9 (MCA6234GA) as the capture antibody.

Storage

Store at +4°C or at -20°C if preferred.
Storage in frost-free freezers is not recommended.
This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Guarantee

12 months from date of despatch

**Health And Safety
Information**

Material Safety Datasheet documentation #10041 available at:
<https://www.bio-rad-antibodies.com/SDS/MCA6235B>
10041

Regulatory

For research purposes only

Related Products

ELISA Matched Pair - Capture Antibody

[MOUSE ANTI HUMAN HAPTOGLOBIN \(MCA6234GA\)](#)

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

'M386387:210521'

Printed on 18 Jan 2024

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