

Datasheet: MCA5748G

BATCH NUMBER 170974

Description:	MOUSE ANTI HUMAN IgG (CH2 DOMAIN)
Specificity:	IgG (CH2 Domain)
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	R10Z8E9
Isotype:	IgG1
Quantity:	0.2 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	▪			

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
Species Cross Reactivity	Does not react with: Mouse, Rat, Cynomolgus monkey, Baboon, Marmoset, Rhesus Monkey
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein A 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 1.0mg/ml
Immunogen	Polyclonal Human IgG
External Database Links	<p>UniProt:</p> <p>P01857 Related reagents</p> <p>P01859 Related reagents</p> <p>P01859 Related reagents</p> <p>Entrez Gene:</p> <p>3500 IGHG1 Related reagents</p> <p>3501 IGHG2 Related reagents</p> <p>3501 IGHG2 Related reagents</p>
RRID	AB_10965068
Fusion Partners	Spleen cells from immunized BALB/c mice were fused with cells of the NS0 myeloma cell line.
Specificity	<p>Mouse anti Human IgG (CH2 Domain), clone R10Z8E9 recognizes Human IgG.</p> <p>Clone R10Z8E9 appears to be specific to Human IgG and been demonstrated by ELISA not to recognize IgG from non-human primate species (Baboon, Marmoset, Rhesus and Cynomologus macaques), nor does it recognize mouse or rat immunoglobulin.</p> <p>NB: This reagent may not be used for the detection of therapeutic antibodies from samples obtained from experimental animals without prior consent by the owner of EP 1 853 921 (F. Hoffmann-La Roche AG, Basel, Switzerland) and /or US 7,955,806 (HOFFMANN-LA ROCHE, INC., Nutley, NJ).</p> <p>View a summary of anti-human IgG Fc specific antibodies for the detection of therapeutic antibodies.</p>
ELISA	This product is suitable for use in indirect ELISA applications.
References	<ol style="list-style-type: none"> 1. Stubenrauch, K. <i>et al.</i> (2009) Evaluation of an immunoassay for human-specific quantitation of therapeutic antibodies in serum samples from non-human primates. J Pharm Biomed Anal. 49 (4): 1003-8. 2. Gilchuk, P. <i>et al.</i> (2018) Efficacy of Human Monoclonal Antibody Monotherapy Against Bundibugyo Virus Infection in Nonhuman Primates. J Infect Dis. 218 (suppl 5): S565-S573. 3. Cross, R.W. <i>et al.</i> (2020) Prior vaccination with rVSV-ZEBOV does not interfere with but improves efficacy of postexposure antibody treatment. Nat Commun. 11 (1): 3736. 4. Gilchuk, P. <i>et al.</i> (2020) Analysis of a Therapeutic Antibody Cocktail Reveals Determinants for Cooperative and Broad Ebolavirus Neutralization. Immunity. 52 (2): 388-403.e12.

5. Lovey, A. *et al.* (2024) CTC-177, a novel drug-Fc conjugate, shows promise as an immunoprophylactic agent against multidrug-resistant Gram-negative bacterial infections. [JAC Antimicrob Resist. 6 \(4\): dlae100.](#)

Storage	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. Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.
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/MCA5748G
Licensed Use	Not for the detection of therapeutic antibodies from samples obtained from experimental animals without prior consent by the owner of EP 1 853 921 (F. Hoffmann-La Roche AG, Basel, Switzerland) and /or US 7,955,806 (HOFFMANN-LA ROCHE, INC., Nutley, NJ)
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12...) [RPE](#)
Rabbit Anti Mouse IgG (STAR13...) [HRP](#)
Rabbit Anti Mouse IgG (STAR9...) [FITC](#)
Goat Anti Mouse IgG (H/L) (STAR117...) [HRP](#)

Recommended Negative Controls

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

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
'M430521:240516'

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