Datasheet: MCA5748G

BATCH NUMBER 171258

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	**UniProt:** P01857 Related reagents P01859 Related reagents P01859 Related reagents **Entrez Gene:** 3500 IGHG1 Related reagents 3501 IGHG2 Related reagents 3501 IGHG2 Related reagents
RRID	AB_10965068
Fusion Partners	Spleen cells from immunized BALB/c mice were fused with cells of the NS0 myeloma cell line.
Specificity	**Mouse anti Human IgG (CH2 Domain), clone R10Z8E9** recognizes Human IgG. 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. 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). View a summary of anti-human IgG Fc specific antibodies for the detection of therapeutic antibodies.
ELISA	This product is suitable for use in indirect ELISA applications.
References	1. Stubenrauch, K. *et al.* (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. *et al.* (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. *et al.* (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. *et al.* (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

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