Datasheet: MCA5983GA

Description:	MOUSE ANTI HORSE IgE
Specificity:	IgE
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	7H2
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
Flow Cytometry			▪	
Immunohistology - Frozen	▪			
Immunohistology - Paraffin (1)	▪			
ELISA	▪			1/40 - 1/400
Immunoprecipitation			▪	
Western Blotting (2)	▪			

Where this antibody 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 antibody for use in their own system using appropriate negative/positive controls.

(1) **This antibody is demonstrated to work in formalin fixed tissue when using trypsin digestion pre-treatment of paraffin sections. Testing undertaken utilizing heat mediated antigen retrieval techniques with this antibody have not been successful.**

(2) **Non-reducing conditions are recommended**

Target Species

Horse

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 1.0 mg/ml
Immunogen	Equine IgE
Fusion Partners	Spleen cells from immunised Balb/c mice were fused with cells of the P3X myeloma cell line
Specificity	**Mouse anti Horse IgE antibody, clone 7H2** recognizes native equine IgE and does not cross react with equine IgM, IgA or IgG. IgE is an immunoglobulin primarily produced from plasma cells and, in normal serum, present at very low concentrations. Western blot analysis against affinity purified equine IgE using Mouse anti Horse IgE clone 7H2 demonstrates a single major band of approximately 200 kDa under non-reducing conditions that corresponds with the expected molecular weight of the complete equine IgE molecule (Wilson, D.A. *et al.* 2006). IgE is important in both type 1 hypersensitivity and immunity to parasite infections, in particular parasitic worms where equine IgE levels are significantly elevated following worm infection. Monoclonal antibodies to equine IgE are of particular relevance to research into insect bite sensitivity, one of the most widely studied allergic diseases in equid species (Schaffartzik, A., *et al.* 2012).
ELISA	This product may be used in an indirect ELISA or as a capture antibody in a sandwich ELISA together with MCA5982P as the detection reagent.
Western Blotting	Clone 7H2 has been demonstrated to detect a band of approximately 200 kDa in non-reducing conditions. This clone is not suitable for use in western blotting under reducing conditions. For western blotting applications it is recommended to use clone 3H10 MCA5982GA.
References	1. Wilson, D. A. *et al.* (2006) Production of monoclonal antibodies specific for native equine IgE and their application to monitor total serum IgE responses in Icelandic and non-Icelandic horses with insect bite dermal hypersensitivity. Vet Immunol Immunopathol. 112: 156-70.
Further Reading	1. Schaffartzik, A.*et al.* (2012) Equine insect bite hypersensitivity: what do we know? Vet Immunol Immunopathol. 147: 113-26
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/MCA5983GA 10040
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Rabbit Anti Mouse IgG (STAR8...)	DyLight®800
Goat Anti Mouse IgG (STAR76...)	RPE
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC, HRP
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos., HRP
Rabbit Anti Mouse IgG (STAR13...)	HRP
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos., DyLight®488, DyLight®680, DyLight®800, FITC, HRP
Goat Anti Mouse IgG (STAR70...)	FITC

Recommended Useful Reagents

MOUSE ANTI HORSE IgGb (MCA1901GA)
MOUSE ANTI HORSE IgE (MCA5982GA)
MOUSE ANTI HORSE IgE:HRP (MCA5982P)

North & South America Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com

Worldwide Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com

Europe Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com

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

'M381345:210512'

Printed on 18 Jan 2024