

## Datasheet: MCA5983GA

<b>Description:</b>	MOUSE ANTI HORSE IgE
<b>Specificity:</b>	IgE
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	7H2
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	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](http://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**

<b>Target Species</b>	Horse
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.09% Sodium Azide (NaN <sub>3</sub> )
<b>Carrier Free</b>	Yes
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 mg/ml

<b>Immunogen</b>	Equine IgE
<b>Fusion Partners</b>	Spleen cells from immunised Balb/c mice were fused with cells of the P3X myeloma cell line
<b>Specificity</b>	<p><b>Mouse anti Horse IgE antibody, clone 7H2</b> recognizes native equine IgE and does not cross react with equine IgM, IgA or IgG.</p> <p>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 (<a href="#">Wilson, D.A. et al. 2006</a>).</p> <p>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.</p> <p>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 (<a href="#">Schaffartzik, A., et al. 2012</a>).</p>
<b>ELISA</b>	This product may be used in an indirect ELISA or as a capture antibody in a sandwich ELISA together with <a href="#">MCA5982P</a> as the detection reagent.
<b>Western Blotting</b>	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 <a href="#">MCA5982GA</a> .
<b>References</b>	1. Wilson, D. A. <i>et al.</i> (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. <a href="#">Vet Immunol Immunopathol. 112: 156-70.</a>
<b>Further Reading</b>	1. Schaffartzik, A. <i>et al.</i> (2012) Equine insect bite hypersensitivity: what do we know? <a href="#">Vet Immunol Immunopathol. 147: 113-26</a>
<b>Storage</b>	<p>Store at +4°C or at -20°C if preferred.</p> <p>Storage in frost-free freezers is not recommended.</p> <p>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.</p>
<b>Guarantee</b>	18 months from date of despatch.
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10040 available at: 10040: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf</a>
<b>Regulatory</b>	For research purposes only

## Related Products

### Recommended Secondary Antibodies

- Goat Anti Mouse IgG IgA IgM (STAR87...) [Alk. Phos.](#), [HRP](#)
- Goat Anti Mouse IgG (STAR77...) [HRP](#)

Rabbit Anti Mouse IgG (STAR12...)	<a href="#">RPE</a>
Rabbit Anti Mouse IgG (STAR8...)	<a href="#">DyLight@800</a>
Rabbit Anti Mouse IgG (STAR13...)	<a href="#">HRP</a>
Goat Anti Mouse IgG (STAR76...)	<a href="#">RPE</a>
Goat Anti Mouse IgG (STAR70...)	<a href="#">FITC</a>
Goat Anti Mouse IgG (Fc) (STAR120...)	<a href="#">FITC</a> , <a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR9...)	<a href="#">FITC</a>
Goat Anti Mouse IgG (H/L) (STAR117...)	<a href="#">Alk. Phos.</a> , <a href="#">DyLight@488</a> , <a href="#">DyLight@549</a> , <a href="#">DyLight@649</a> , <a href="#">DyLight@680</a> , <a href="#">DyLight@800</a> , <a href="#">FITC</a> , <a href="#">HRP</a>

## Recommended Useful Reagents

[MOUSE ANTI HORSE IgA \(MCA629GA\)](#)

[MOUSE ANTI HORSE IgGb \(MCA1901GA\)](#)

[MOUSE ANTI HORSE IgE \(MCA5982GA\)](#)

[MOUSE ANTI HORSE IgE:HRP \(MCA5982P\)](#)

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