Datasheet: MCA5983GA

### Product Details

**Description:** MOUSE ANTI HORSE IgE

**Specificity:** IgE

**Format:** Purified

**Product Type:** Monoclonal Antibody

**Clone:** 7H2

**Isotype:** IgG1

**Quantity:** 0.1 mg

### 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.

<table>
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<tr>
<th>Application</th>
<th>Yes</th>
<th>No</th>
<th>Not Determined</th>
<th>Suggested Dilution</th>
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<tbody>
<tr>
<td>Flow Cytometry</td>
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<td>Immunohistology - Frozen</td>
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<td>Immunohistology - Paraffin (1)</td>
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<td>ELISA</td>
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<td>1/40 - 1/400</td>
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<td>Immunoprecipitation</td>
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<td>Western Blotting (2)</td>
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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 (NaN₃)

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

Further Reading

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)