Datasheet: MCA5982GA

Description:	MOUSE ANTI HORSE IgE
Specificity:	IgE
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	3H10
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			▪	
ELISA	▪			1/1000 - 1/10,000
Immunoprecipitation			▪	
Western Blotting	▪			

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	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**, clone 3H10, 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. 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 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 is suitable for use in indirect ELISA applications.
Western Blotting	Western blot analysis against affinity purified equine IgE using Mouse anti Horse IgE clone 3H10 demonstrates a band of approximately 80 kDa under reducing conditions and a band of approximately 200 kDa under non-reducing conditions which correspond with the expected molecular weight of equine Ig epsilon chain and the complete equine IgE molecule, respectively (Wilson, D.A. *et al.* 2006).
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: 56-70.
Further Reading	1. Schaffartzik, A.*et al.* (2012) Equine insect bite hypersensitivity: what do we know? Vet Immunol Immunopathol. 147: 113-26.
Storage	Store at +4ºC or at -20ºC if preferred. Storage in frost-free freezers is not recommended. 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.
Shelf Life	18 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: 10040: https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos., HRP
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos., DyLight®488, DyLight®549, DyLight®649, DyLight®680, DyLight®800, FITC, HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (STAR77...)	HRP

Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC, HRP
Rabbit Anti Mouse IgG (STAR8...)	DyLight®800
Goat Anti Mouse IgG (STAR70...)	FITC
Rabbit Anti Mouse IgG (STAR13...)	HRP
Human Anti Mouse IgG1 (HCA036...)	HRP

Recommended Useful Reagents

MOUSE ANTI HORSE IgE (MCA5983GA)

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