

Mouse Anti-Horse IgE,
monoclonal

CatNo **MAK5982GA**

BatchNo: See Label
 Expiration Date: See label
 Storage: 2-8 °C for 1 month
 -20 °C for longer

Clone Number:	3H10
Volume/Quantity:	0.1 mg
Product Form:	Purified IgG - liquid
Preparation:	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant
Buffer:	Phosphate buffered saline
Preservatives Stabilisers:	0.09% Sodium Azide (NaN ₃)
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
Isotype:	IgG1 (Mouse)
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).

Applications:	Suggested Working Dilution	
FlowCytometry	Not tested	
Immunohistology-frozen	Yes	
Immunohistology-paraffin	Not tested	
ELISA	Yes	1/1000 – 1/10,000
Immunoprecipitation	Not tested	
Western Blotting	Yes	

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.

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ELISA

This product is suitable for use in indirect ELISA applications.

Westernblotting

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. Schaffartzik, A. et al. (2012) Equine insect bite hypersensitivity: what do we know? Vet Immunol Immunopathol. 147: 113-26

Storage Conditions:

This product is shipped at ambient temperature. Store at 2-8°C for one month or at -20°C for longer! Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Shelf Life:

12 months from date of despatch.

Health and Safety Information:

(A full Health and Safety assessment is available upon request)

This product contains sodium azide: a POISONOUS and HAZARDOUS SUBSTANCE which should be handled by trained staff only.

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For Research purposes only. Not for therapeutic or diagnostic use.

