

Datasheet: MCA5941GA

BATCH NUMBER 148494

Description:	MOUSE ANTI SHEEP IgE
Specificity:	IgE
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	1E7
Isotype:	IgG2a
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	▪			1/500 - 1/2000
Immunoprecipitation			▪	
Western Blotting	▪			
Immunofluorescence	▪			

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	Sheep
-----------------------	-------

Species Cross Reactivity	<p>Reacts with: Goat</p> <p>Does not react with: Horse, Human</p> <p>N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.</p>
---------------------------------	---

Product Form	Purified IgG - liquid
---------------------	-----------------------

Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)
Approx. Protein Concentrations	IgG concentration 0.5 mg/ml
Immunogen	Recombinant ovine IgE1-2 expressed in <i>E.coli</i>
Specificity	<p>Mouse anti Sheep IgE, clone 1E7, recognizes ovine Immunoglobulin E (IgE) and does not cross react with ovine IgM, IgA, IgG1 or IgG2.</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 ovine IgE using Mouse anti Sheep IgE clone 1E7 demonstrates a single major band of approximately 80 kDa under reducing conditions, and a band at approximately 200 kDa is observed after electrophoresis under non-reducing conditions. These bands correspond with the expected molecular weights of the epsilon chain and the complete ovine IgE molecule (Kooyman, F.N. et al. 1997).</p> <p>IgE is important in both type 1 hypersensitivity and immunity to parasite infections, in particular parasitic worm infections. Mouse anti Sheep IgE, clone 1E7 has been used in a number of studies involving parasite nematode infections of sheep by <i>Haemonchus contortus</i> (Vervelde, L. et al. 1997 and Kooyman, F.N. et al. 1997). Clone 1E7 has also been reported to recognize bovine IgE, and, as such, it is useful for studies of infection in cattle by nematode worms such as <i>Dictyocaulus viviparus</i> (Bricarello, P.A. et al. 2007 and Kooyman, F.N. et al. 2002).</p> <p>In addition to this specific anti IgE monoclonal antibody, monoclonal antibodies specific to both bovine and ovine, IgA, IgM and IgG subclasses are available from Bio-Rad.</p>
References	<ol style="list-style-type: none"> 1. Bricarello, P.A. et al. (2007) Field study on nematode resistance in Nelore-breed cattle. Vet Parasitol.148:272-8 2. Vervelde, L. et al. (2003) Vaccination-induced protection of lambs against the parasitic nematode <i>Haemonchus contortus</i> correlates with high IgG antibody responses to the LDNF glycan antigen. Glycobiology 13:795-804 3. Kooyman, F.N. et al. (2002) Serum immunoglobulin E response in calves infected with the lungworm <i>Dictyocaulus viviparus</i> and its correlation with protection. Parasite Immunol. 24:47-56 4. Kooyman, F.N. et al. (1997) Production of a monoclonal antibody specific for ovine immunoglobulin E and its application to monitor serum IgE responses to <i>Haemonchus contortus</i> infection. Parasitology 114:395-406
Storage	Store at +4°C or at -20°C if preferred.

This product should be stored undiluted.
Storage in frost free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

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/MCA5941GA 10040
--------------------------------------	--

Regulatory	For research purposes only
-------------------	----------------------------

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (H/L) (STAR117...) [HRP](#)

Recommended Useful Reagents

[MOUSE ANTI BOVINE IgG1 \(MCA627GA\)](#)

[MOUSE ANTI BOVINE IgA \(MCA2438GA\)](#)

[MOUSE ANTI BOVINE IgA:HRP \(MCA2438P\)](#)

[MOUSE ANTI BOVINE IgG \(MCA2439GA\)](#)

[MOUSE ANTI BOVINE IgG1 \(MCA2440GA\)](#)

[MOUSE ANTI BOVINE IgG:HRP \(MCA2439P\)](#)

[MOUSE ANTI BOVINE IgG1:HRP \(MCA2440P\)](#)

[MOUSE ANTI BOVINE IgG2 \(MCA2441GA\)](#)

[MOUSE ANTI BOVINE IgG2:HRP \(MCA2441P\)](#)

[MOUSE ANTI BOVINE IgM \(MCA2443GA\)](#)

North & South Tel: +1 800 265 7376

America 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](https://www.bio-rad-antibodies.com/datasheets)

'M368502:200529'

Printed on 25 Mar 2023

© 2023 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)