

Datasheet: AAI21B

BATCH NUMBER 158970

Description:	SHEEP ANTI BOVINE IgG1:Biotin
Specificity:	IgG1
Format:	Biotin
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	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	▪			1:10000 - 1:100000
Western Blotting	▪			1:10000 - 1:100000

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	Bovine
Product Form	Purified IgG fraction conjugated to Biotin - liquid
Antiserum Preparation	Antisera to bovine IgG1 were raised by repeated immunisation of sheep with highly purified antigen. Purified IgG was prepared by affinity chromatography.
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml

Immunogen	Purified bovine IgG1.
RRID	AB_10672441
Specificity	<p>Sheep anti Bovine IgG1 polyclonal antibody recognizes bovine IgG1.</p> <p>No cross-reactivity with other bovine immunoglobulin classes is seen in immunoelectrophoresis. This product may cross-react with IgG1 from other species.</p>
References	<ol style="list-style-type: none"> Vordermeier, H.M. <i>et al.</i> (2003) Improved immunogenicity of DNA vaccination with mycobacterial HSP65 against bovine tuberculosis by protein boosting. Vet Microbiol. 93: 349-59. van Diemen, P.M. <i>et al.</i> (2007) Subunit vaccines based on intimin and Efa-1 polypeptides induce humoral immunity in cattle but do not protect against intestinal colonisation by enterohaemorrhagic <i>Escherichia coli</i> O157:H7 or O26:H-. Vet Immunol Immunopathol. 116: 47-58. von Holtum, C. <i>et al.</i> (2008) Development and evaluation of a recombinant antigen-based ELISA for serodiagnosis of cattle lungworm. Vet Parasitol. 151: 218-26. Patarroyo, J.H. <i>et al.</i> (2009) Immune response of bovines stimulated by synthetic vaccine SBm7462 against <i>Rhipicephalus (Boophilus) microplus</i>. Vet Parasitol. 166: 333-9. Almería, S. <i>et al.</i> (2009) Specific anti-<i>Neospora caninum</i> IgG1 and IgG2 antibody responses during gestation in naturally infected cattle and their relationship with gamma interferon production. Vet Immunol Immunopathol. 130: 35-42. Fiedor, C. <i>et al.</i> (2009) Evaluation of a milk ELISA for the serodiagnosis of <i>Dictyocaulus viviparus</i> in dairy cows. Vet Parasitol. 166: 255-61. Makepeace, B.L. <i>et al.</i> (2009) Immunisation with a multivalent, subunit vaccine reduced patent infection in a natural bovine model of Onchocerciasis during intense field exposure. PLoS Negl. Trop. Dis. 3: e544. Riffault, S. <i>et al.</i> (2010) A new subunit vaccine based on nucleoprotein nanoparticles confers partial clinical and virological protection in calves against bovine respiratory syncytial virus. Vaccine. 28: 3722-34. Ploegaert, T.C. <i>et al.</i> (2010) Genetic variation of natural antibodies in milk of Dutch Holstein-Friesian cows. J Dairy Sci. 93: 5467-73. Van Neerven, R.J. <i>et al.</i> (2010) Milk derived antigen-specific antibodies, methods of preparation and uses thereof. US Patent application no: US20100129377 A1 Colwell, D.D. <i>et al.</i> (2010) <i>Dicrocoelium dendriticum</i> in cattle from Cypress Hills, Canada: Humoral response and preliminary evaluation of an ELISA. Vet Parasitol. 174: 162-5. Prado, M.E. <i>et al.</i> (2011) Vaccination of dairy cows with recombinant <i>Streptococcus uberis</i> adhesion molecule induces antibodies that reduce adherence to and internalization of <i>S. uberis</i> into bovine mammary epithelial cells. Vet Immunol Immunopathol. 141: 201-8. Lavoria, M.Á. <i>et al.</i> (2012) Avidity and subtyping of specific antibodies applied to the indirect assessment of heterologous protection against Foot-and-Mouth Disease Virus in cattle. Vaccine. 30: 6845-50. Assad, A. <i>et al.</i> (2012) Immunophenotyping and characterization of BNP colostrum revealed pathogenic alloantibodies of IgG1 subclass with specificity to platelets, granulocytes and monocytes of all maturation stages. Vet Immunol Immunopathol. 147: 25-34.

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Storage	Store at +4°C. DO NOT FREEZE. This product should be stored undiluted. 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/AAI21B>
10040

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**North & South
America** Tel: +1 800 265 7376
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)
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