

## Datasheet: AAI21B

**BATCH NUMBER 155028**

<b>Description:</b>	SHEEP ANTI BOVINE IgG1:Biotin
<b>Specificity:</b>	IgG1
<b>Format:</b>	Biotin
<b>Product Type:</b>	Polyclonal Antibody
<b>Isotype:</b>	Polyclonal IgG
<b>Quantity:</b>	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](http://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.

<b>Target Species</b>	Bovine
<b>Product Form</b>	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.

<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.09% Sodium Azide (NaN <sub>3</sub> )
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 mg/ml

<b>Immunogen</b>	Purified bovine IgG1.
<b>RRID</b>	AB_10672441
<b>Specificity</b>	<p><b>Sheep anti Bovine IgG1 polyclonal antibody</b> 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>
<b>References</b>	<ol style="list-style-type: none"> <li>Vordermeier, H.M. <i>et al.</i> (2003) Improved immunogenicity of DNA vaccination with mycobacterial HSP65 against bovine tuberculosis by protein boosting. <a href="#">Vet Microbiol. 93: 349-59.</a></li> <li>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-. <a href="#">Vet Immunol Immunopathol. 116: 47-58.</a></li> <li>von Holtum, C. <i>et al.</i> (2008) Development and evaluation of a recombinant antigen-based ELISA for serodiagnosis of cattle lungworm. <a href="#">Vet Parasitol. 151: 218-26.</a></li> <li>Patarroyo, J.H. <i>et al.</i> (2009) Immune response of bovines stimulated by synthetic vaccine SBm7462 against <i>Rhipicephalus (Boophilus) microplus</i>. <a href="#">Vet Parasitol. 166: 333-9.</a></li> <li>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. <a href="#">Vet Immunol Immunopathol. 130: 35-42.</a></li> <li>Fiedor, C. <i>et al.</i> (2009) Evaluation of a milk ELISA for the serodiagnosis of <i>Dictyocaulus viviparus</i> in dairy cows. <a href="#">Vet Parasitol. 166: 255-61.</a></li> <li>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. <a href="#">PLoS Negl. Trop. Dis. 3: e544.</a></li> <li>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. <a href="#">Vaccine. 28: 3722-34.</a></li> <li>Ploegaert, T.C. <i>et al.</i> (2010) Genetic variation of natural antibodies in milk of Dutch Holstein-Friesian cows. <a href="#">J Dairy Sci. 93: 5467-73.</a></li> <li>Van Neerven, R.J. <i>et al.</i> (2010) Milk derived antigen-specific antibodies, methods of preparation and uses thereof. <a href="#">US Patent application no: US20100129377 A1</a></li> <li>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. <a href="#">Vet Parasitol. 174: 162-5.</a></li> <li>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. <a href="#">Vet Immunol Immunopathol. 141: 201-8.</a></li> <li>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. <a href="#">Vaccine. 30: 6845-50.</a></li> <li>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. <a href="#">Vet Immunol Immunopathol. 147: 25-34.</a></li> </ol>

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<b>Storage</b>	Store at +4°C. DO NOT FREEZE. This product should be stored undiluted. Should this product contain a precipitate we recommend microcentrifugation before use.
<b>Guarantee</b>	12 months from date of despatch

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**Health And Safety  
Information**

Material Safety Datasheet documentation #10040 available at:  
<https://www.bio-rad-antibodies.com/SDS/AAI21B>  
10040

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