

## Datasheet: AAI21F

**BATCH NUMBER 153843**

<b>Description:</b>	SHEEP ANTI BOVINE IgG1:FITC
<b>Specificity:</b>	IgG1
<b>Format:</b>	FITC
<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	▪			1/20 - 1/100
Immunohistology - Frozen	▪			1/20 - 1/100
Immunohistology - Paraffin			▪	

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 the appropriate negative/positive controls.

<b>Target Species</b>	Bovine						
<b>Product Form</b>	Purified IgG fraction conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid						
<b>Max Ex/Em</b>	<table border="1"> <thead> <tr> <th>Fluorophore</th> <th>Excitation Max (nm)</th> <th>Emission Max (nm)</th> </tr> </thead> <tbody> <tr> <td>FITC</td> <td>490</td> <td>525</td> </tr> </tbody> </table>	Fluorophore	Excitation Max (nm)	Emission Max (nm)	FITC	490	525
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FITC	490	525					

**Antiserum Preparation** Antisera to bovine IgG1 were raised by repeated immunisation of sheep with highly purified antigen. Purified IgG prepared by affinity chromatography.

**Buffer Solution** Phosphate buffered saline

**Preservative Stabilisers** 0.09% Sodium Azide

**Approx. Protein Concentrations** IgG concentration 1.0 mg/ml

<b>Immunogen</b>	Purified bovine IgG1.
<b>RRID</b>	AB_323070
<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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**Storage**

Store at +4°C. DO NOT FREEZE.

This product should be stored undiluted. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use.

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**Guarantee** 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/AAI21F10040>

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**Regulatory** For research purposes only

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'M363602:200528'

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