

## Datasheet: AAI23F

**BATCH NUMBER 163223**

<b>Description:</b>	SHEEP ANTI BOVINE IgG:FITC
<b>Specificity:</b>	IgG
<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	▪			
Immunohistology - Frozen	▪			1/200 - 1/2,000
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 IgG 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 IgG.
<b>RRID</b>	AB_323064
<b>Specificity</b>	<p><b>Sheep anti Bovine IgG polyclonal antibody</b> recognizes bovine IgG and shows no cross - reactivity with other bovine immunoglobulin classes in immunoelectrophoresis. This polyclonal antibody has not been cross adsorbed and may therefore react with IgG from other species</p> <p>Sheep anti Bovine IgG has been usefully employed for the detection of antigen specific antibody reactivity in cattle by ELISA (<a href="#">Vrieling <i>et al.</i> 2013</a>).</p>
<b>References</b>	<ol style="list-style-type: none"> <li>Naylor, S.W. <i>et al.</i> (2007) Impact of the direct application of therapeutic agents to the terminal recta of experimentally colonized calves on Escherichia coli O157:H7 shedding. <a href="#">Appl Environ Microbiol. 73: 1493-500.</a></li> <li>Cortes, H.C. <i>et al.</i> (2007) Application of conventional and real-time fluorescent ITS1 rDNA PCR for detection of <i>Besnoitia besnoiti</i>. infections in bovine skin biopsies. <a href="#">Vet Parasitol. 146 (3-4): 352-6.</a></li> <li>Bridger, P.S. <i>et al.</i> (2011) Detection of colostrum-derived alloantibodies in calves with bovine neonatal pancytopenia. <a href="#">Vet Immunol Immunopathol. 141: 1-10.</a></li> <li>Waap, H. <i>et al.</i> (2011) A modified agglutination test for the diagnosis of <i>Besnoitia besnoiti</i>. infection. <a href="#">Vet Parasitol. 178 (3-4): 217-22.</a></li> <li>Grant, C.F. <i>et al.</i> (2012) Assessment of T-dependent and T-independent immune responses in cattle using a B cell ELISPOT assay. <a href="#">Vet Res. 43: 68.</a></li> <li>Duncombe, L. <i>et al.</i> (2013) Investigating the Use of Protein Saver Cards for Storage and Subsequent Detection of Bovine Anti-Brucella abortus Smooth Lipopolysaccharide Antibodies and Gamma Interferon. <a href="#">Clin Vaccine Immunol. 20: 1669-74.</a></li> <li>Vrieling, M. <i>et al.</i> (2013) Hsp70 vaccination-induced primary immune responses in efferent lymph of the draining lymph node. <a href="#">Vaccine. 31 (42): 4720-7.</a></li> <li>Somda, M.B. <i>et al.</i> (2013) First insights into the cattle serological response to tsetse salivary antigens: a promising direct biomarker of exposure to tsetse bites. <a href="#">Vet Parasitol. 197 (1-2): 332-40.</a></li> <li>Hosking, C.G. <i>et al.</i> (2015) Using the local immune response from the natural buffalo host to generate an antibody fragment library that binds the early larval stages of Schistosoma japonicum. <a href="#">Int J Parasitol. 45 (11): 729-40.</a></li> <li>Subharat, S. <i>et al.</i> (2015) Vaccination of cattle with a methanogen protein produces specific antibodies in the saliva which are stable in the rumen. <a href="#">Vet Immunol Immunopathol. 164 (3-4): 201-7.</a></li> <li>Facciuolo, A. <i>et al.</i> (2016) Marked Differences in Mucosal Immune Responses Induced in Ileal versus Jejunal Peyer's Patches to <i>Mycobacterium avium</i> subsp. <i>paratuberculosis</i> Secreted Proteins following Targeted Enteric Infection in Young Calves. <a href="#">PLoS One. 11 (7): e0158747.</a></li> <li>Somda, M.B. <i>et al.</i> (2016) Identification of a Tsal152-75 salivary synthetic peptide to monitor cattle exposure to tsetse flies. <a href="#">Parasit Vectors. 9 (1): 149.</a></li> <li>Benedictus, L. <i>et al.</i> (2016) Pregnancy boosts vaccine-induced Bovine Neonatal Pancytopenia-associated alloantibodies. <a href="#">Vaccine. 34 (8): 1002-5.</a></li> <li>Denholm, S.J. <i>et al.</i> (2018) Immune-associated traits measured in milk of Holstein-Friesian cows as proxies for blood serum measurements. <a href="#">J Dairy Sci. 101 (11):</a></li> </ol>

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15. Alo, K *et al.* (2018) Passive protective effect of anti-K99 antibodies against enterotoxigenic *E.coli.* infection in neonatal calves [Ir J of Vet Med, 12\(2\), 97-107](#)

16. Springer, A. *et al.* (2022) Immunization Trials with Recombinant Major Sperm Protein of the Bovine Lungworm *Dictyocaulus viviparus.* [Pathogens 2022, 11, 55.](#)

17. Anastácio, C. *et al.* (2022) Impact of Endemic Besnoitiosis on the Performance of a Dairy Cattle Herd. [Animals \(Basel\). 12 \(10\): 1291.](#)

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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.

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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/AAI23F>  
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**Regulatory** For research purposes only

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