

Datasheet: AAI23B

BATCH NUMBER 149923

Description:	SHEEP ANTI BOVINE IgG:Biotin
Specificity:	IgG
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
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Product Form	Purified IgG fraction conjugated to Biotin - liquid
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Antiserum Preparation	Antisera to bovine IgG were raised by repeated immunisation of sheep with highly purified antigen. Purified IgG was prepared by affinity chromatography.
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Buffer Solution	Phosphate buffered saline
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Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)
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Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
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Immunogen	Purified bovine IgG.
RRID	AB_10671784
Specificity	<p>Sheep anti Bovine IgG polyclonal antibody 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 (Vrieling <i>et al.</i> 2013).</p>
References	<ol style="list-style-type: none"> 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. Appl Environ Microbiol. 73: 1493-500. 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. Vet Parasitol. 146 (3-4): 352-6. Bridger, P.S. <i>et al.</i> (2011) Detection of colostrum-derived alloantibodies in calves with bovine neonatal pancytopenia. Vet Immunol Immunopathol. 141: 1-10. Waap, H. <i>et al.</i> (2011) A modified agglutination test for the diagnosis of <i>Besnoitia besnoiti</i>. infection. Vet Parasitol. 178 (3-4): 217-22. 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. Vet Res. 43: 68. 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. Clin Vaccine Immunol. 20: 1669-74. Vrieling, M. <i>et al.</i> (2013) Hsp70 vaccination-induced primary immune responses in efferent lymph of the draining lymph node. Vaccine. 31 (42): 4720-7. 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. Vet Parasitol. 197 (1-2): 332-40. 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. Int J Parasitol. 45 (11): 729-40. 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. Vet Immunol Immunopathol. 164 (3-4): 201-7. 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. PLoS One. 11 (7): e0158747. Somda, M.B. <i>et al.</i> (2016) Identification of a Tsal152-75 salivary synthetic peptide to monitor cattle exposure to tsetse flies. Parasit Vectors. 9 (1): 149. Benedictus, L. <i>et al.</i> (2016) Pregnancy boosts vaccine-induced Bovine Neonatal Pancytopenia-associated alloantibodies. Vaccine. 34 (8): 1002-5. Denholm, S.J. <i>et al.</i> (2018) Immune-associated traits measured in milk of Holstein-Friesian cows as proxies for blood serum measurements. J Dairy Sci. 101 (11):

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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/AAI23B>
10040

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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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