![Bio-Rad logo]

Datasheet: AAI23B

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

Product Form

Purified IgG fraction conjugated to Biotin - liquid

Antiserum Preparation

Antisera to bovine IgG 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 IgG.

Specificity

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

Sheep anti Bovine IgG has been usefully employed for the detection of antigen specific antibody

reactivity in cattle by ELISA (Vrieling *et al.* 2013).

References	1. Santema, W.J. (1982) Hsp70 as a candidate subunit vaccine for paratuberculosis Dissertation, University of Utrecht.
	2. Duncombe, L. *et al.* (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.
	3. Vrieling, M. *et al.* (2013) Hsp70 vaccination-induced primary immune responses in efferent lymph of the draining lymph node. Vaccine. 31 (42): 4720-7.
	4. Bridger, P.S. *et al.* (2011) Detection of colostrum-derived alloantibodies in calves with bovine neonatal pancytopenia. Vet Immunol Immunopathol. 141: 1-10.
	5. Grant, C.F. *et al.* (2012) Assessment of T-dependent and T-independent immune responses in cattle using a B cell ELISPOT assay. Vet Res. 43: 68.
	6. Naylor, S.W. *et al.* (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.
	7. Somda, M.B. *et al.* (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.
	8. Hosking, C.G. *et al.* (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.
	9. Somda, M.B. *et al.* (2016) Identification of a Tsal152-75 salivary synthetic peptide to monitor cattle exposure to tsetse flies. Parasit Vectors. 9 (1): 149.
	10. Facciuolo, A. *et al.* (2016) Marked Differences in Mucosal Immune Responses Induced in Ileal versus Jejunal Peyer's Patches to *Mycobacterium avium* subsp. *paratuberculosis* Secreted Proteins following Targeted Enteric Infection in Young Calves. PLoS One. 11 (7): e0158747.
	11. Subharat, S. *et al.* (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.
	12. Benedictus, L. *et al.* (2016) Pregnancy boosts vaccine-induced Bovine Neonatal Pancytopenia-associated alloantibodies. Vaccine. 34 (8): 1002-5.

Storage	Store at +4ºC. DO NOT FREEZE. This product should be stored undiluted. Should this product contain a precipitate we recommend microcentrifugation before use.
Shelf Life	12 months from date of despatch.
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: 10040: https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf
Regulatory	For research purposes only

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