Datasheet: AAI23P

BATCH NUMBER 168598

Description:	SHEEP ANTI BOVINE IgG:HRP
Specificity:	IgG
Format:	HRP
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
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA	▪			1/10,000 - 1/100,000
Western Blotting	▪			

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.

Target Species	Bovine
Product Form	Purified IgG conjugated to Horseradish Peroxidase (HRP) - liquid
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	0.05% ProClin 300
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	Purified bovine IgG.

RRID	AB_323063
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. 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.
2. Cortes, H.C. *et al.* (2007) Application of conventional and real-time fluorescent ITS1 rDNA PCR for detection of *Besnoitia besnoiti.* infections in bovine skin biopsies. Vet Parasitol. 146 (3-4): 352-6.
3. Bridger, P.S. *et al.* (2011) Detection of colostrum-derived alloantibodies in calves with bovine neonatal pancytopenia. Vet Immunol Immunopathol. 141: 1-10.
4. Waap, H. *et al.* (2011) A modified agglutination test for the diagnosis of *Besnoitia besnoiti.* infection. Vet Parasitol. 178 (3-4): 217-22.
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. 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.
7. Vrieling, M. *et al.* (2013) Hsp70 vaccination-induced primary immune responses in efferent lymph of the draining lymph node. Vaccine. 31 (42): 4720-7.
8. 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.
9. 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.
10. 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.
11. 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.
12. 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.
13. Benedictus, L. *et al.* (2016) Pregnancy boosts vaccine-induced Bovine Neonatal Pancytopenia-associated alloantibodies. Vaccine. 34 (8): 1002-5.
14. Denholm, S.J. *et al.* (2018) Immune-associated traits measured in milk of Holstein-Friesian cows as proxies for blood serum measurements. J Dairy Sci. 101 (11): 10248-10258.

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.
18. Coelho, J. *et al.* (2023) Epidemiological characteristics of bovine besnoitiosis (*Besnoitia besnoiti*) in a beef cattle farm: a cross-sectional serological assessment. Front Vet Sci. 10: 1158235.
19. Salles, M.S.V. *et al.* (2024) Supplementation of essential nutrients, selenium, iron and vitamin E for suckling calves under immunological challenge Res Sq 12 Apr [Preprint]
20. Okino, C.H. *et al.* (2020) A polymorphic CD4 epitope related to increased susceptibility to *Babesia bovis* in Canchim calves. Vet Immunol Immunopathol. 230: 110132.
21. Somda, M.B. *et al.* (2022) Evaluation of antibody responses to tsetse fly saliva in domestic animals in the sleeping sickness endemic foci of Bonon and Sinfra, Côte d'Ivoire. Vet Parasitol Reg Stud Reports. 34: 100773.

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.
Acknowledgements	ProClin is a trademark of The Dow Chemical Company (“Dow”) or an affiliated company of Dow.
Health And Safety Information	Material Safety Datasheet documentation #20392 available at: https://www.bio-rad-antibodies.com/SDS/AAI23P
Regulatory	For research purposes only.

Related Products

Recommended Useful Reagents

AbGUARD® HRP STABILIZER PLUS (BUF052A)
AbGUARD® HRP STABILIZER PLUS (BUF052B)
AbGUARD® HRP STABILIZER PLUS (BUF052C)
TMB CORE (BUF056A)
TMB CORE+ (BUF062A)
TMB SIGNAL+ (BUF054A)

Product inquiries: www.bio-rad-antibodies.com/technical-support

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