Datasheet: AAI22AB

BATCH NUMBER 158081

Description:	SHEEP ANTI BOVINE IgG2:Alk. Phos.
Specificity:	IgG2
Format:	Alk. Phos.
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	0.5 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
ELISA	▪			1/1000 - 1/10000

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 Alkaline Phosphatase - liquid
Antiserum Preparation	Antisera to bovine IgG2 were raised by repeated immunisation of sheep with highly purified antigen. Purified IgG prepared by affinity chromatography.
Buffer Solution	50mM HEPES, 0.1M NaCl, 1mM $MgCl_2$, 0.1mM $ZnCl_2$
Preservative Stabilisers	0.09% Sodium Azide (NaN_3)
Approx. Protein Concentrations	IgG concentration 0.5mg/ml
Immunogen	Purified bovine IgG2.
RRID	AB_10730830

Specificity

Sheep anti Bovine IgG2 polyclonal antibody recognizes bovine IgG2.

No cross - reactivity with other bovine immunoglobulin classes is seen in immunoelectrophoresis. This product may cross-react with IgG2 from other species.

References

1. Makepeace, B.L. *et al.* (2009) Immunisation with a multivalent, subunit vaccine reduced patent infection in a natural bovine model of Onchocerciasis during intense field exposure. PLoS Negl. Trop. Dis. 3: e544.
2. Colwell, D.D. & Goater, C.P. (2010) *Dicrocoelium dendriticum* in cattle from Cypress Hills, Canada: humoral response and preliminary evaluation of an ELISA. Vet Parasitol. 174 (1-2): 162-5.
3. Agnes,J.T. *et al.* (2011) Identification of *Anaplasma marginale* Outer Membrane Protein Antigens Conserved between *A. marginale* Sensu Stricto Strains and the Live *A. marginale* subsp. centrale Vaccine Infect Immun. 79: 1311-8.
4. Assad, A. *et al.* (2012) Immunophenotyping and characterization of BNP colostra revealed pathogenic alloantibodies of IgG1 subclass with specifity to platelets, granulocytes and monocytes of all maturation stages. Vet Immunol Immunopathol. 147: 25-34.
5. Lavoria, M.Á. *et al.* (2012) Avidity and subtyping of specific antibodies applied to the indirect assessment of heterologous protection against Foot-and-Mouth Disease Virus in cattle. Vaccine. 30: 6845-50.
6. Mansilla, F.C. *et al.* (2013) Dose-dependent immunogenicity of a soluble Neospora caninum tachyzoite-extract vaccine formulated with a soy lecithin/β-glucan adjuvant in cattle. Vet Parasitol. 197 (1-2): 13-21.
7. Panadero, R. *et al.* (2013) Effect of reinfestations on systemic immune responses in cattle naturally infested by *Hypoderma sp*. (Diptera: Oestridae). Vet Parasitol. 193: 238-44.
8. Van Meulder, F. *et al.* (2013) Granule exocytosis of granulysin and granzyme B as a potential key mechanism in vaccine-induced immunity in cattle against the nematode *Ostertagia ostertagi.* Infect Immun. 81: 1798-809.
9. Pecora, A. *et al.* (2015) Development of an APC-targeted multivalent E2-based vaccine against Bovine Viral Diarrhea Virus types 1 and 2. Vaccine. 33 (39): 5163-71.
10. Maree, F.F. *et al.* (2015) Intra-serotype SAT2 chimeric foot-and-mouth disease vaccine protects cattle against FMDV challenge. Vaccine. 33 (25): 2909-16.
11. González-Hernández A *et al.* (2016) Host protective ASP-based vaccine against the parasitic nematode Ostertagia ostertagi triggers NK cell activation and mixed IgG1-IgG2 response. Sci Rep. 6: 29496.
12. Rainard, P. *et al.* (2017) Cellular and humoral immune response to recombinant *Escherichia coli.* OmpA in cows. PLoS One. 12 (10): e0187369.
13. Scott, K.A. *et al.* (2017) Evaluation of immune responses of stabilised SAT2 antigens of foot-and-mouth disease in cattle. Vaccine. 35 (40): 5426-33.
14. Rybarczyk, J. *et al.* (2017) Effects of lactoferrin treatment on Escherichia coli O157:H7 rectal colonization in cattle. Vet Microbiol. 202: 38-46.
15. Sheng, Z.A. *et al.* (2019) Th2-related cytokines are associated with *Fasciola gigantica* infection and evasion in the natural host, swamp buffalo. Vet Parasitol. 268: 73-80.
16. Bucafusco, D .*et al.* (2019) Immune cells transferred by colostrum do not influence the immune responses to foot-and-mouth disease primary vaccination. J Dairy Sci. 102 (9):

8376-84.
17. Jiménez-Pelayo, L. *et al.* (2019) Early *Neospora caninum* infection dynamics in cattle after inoculation at mid-gestation with high (Nc-Spain7)- or low (Nc-Spain1H)-virulence isolates. Vet Res. 50 (1): 72.
18. Springer, A.*et al*. (2022) Immunization Trials with Recombinant Major Sperm Protein of the Bovine Lungworm *Dictyocaulus viviparus*.. Pathogens 2022, 11, 55.

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 #10351 available at: https://www.bio-rad-antibodies.com/SDS/AAI22AB 10351
Regulatory	For research purposes only

North & South America Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com

Worldwide Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com

Europe Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

'M363605:200528'

Printed on 01 Mar 2024