Datasheet: AAI23AB

Description:	SHEEP ANTI BOVINE IgG:Alk. Phos.
Specificity:	IgG
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
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA	▪			1/5000 - 1/50000
Western Blotting	▪			1/5000 - 1/50000

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 IgG 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 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

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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.
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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 +4^{o}C.
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 #10089 available at:
10089: https://www.bio-rad-antibodies.com/uploads/MSDS/10089.pdf

Regulatory

For research purposes only

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