

## Datasheet: AAI49AB

<b>Description:</b>	SHEEP ANTI BOVINE IgA:Alk. Phos.
<b>Specificity:</b>	IgA
<b>Format:</b>	Alk. Phos.
<b>Product Type:</b>	Polyclonal Antibody
<b>Isotype:</b>	Polyclonal IgG
<b>Quantity:</b>	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](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen	▪			1/100 - 1/1000
Immunohistology - Paraffin			▪	
ELISA	▪			1/1000 - 1/10,000
Immunoprecipitation			▪	
Western Blotting	▪			1/1000 - 1/10,000
Immunocytochemistry	▪			1/100 - 1/1000

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.

<b>Target Species</b>	Bovine
<b>Product Form</b>	Purified IgG conjugated to Alkaline Phosphatase - liquid
<b>Antiserum Preparation</b>	Antisera to bovine IgA were raised by repeated immunisation of sheep with highly purified antigen. Purified IgG prepared by affinity chromatography.
<b>Buffer Solution</b>	50mM HEPES, 0.1M NaCl, 1mM MgCl <sub>2</sub> , 0.1mM ZnCl <sub>2</sub>
<b>Preservative</b>	0.09% Sodium Azide (NaN <sub>3</sub> )
<b>Stabilisers</b>	0.2% Bovine Serum Albumin
<b>Approx. Protein Concentrations</b>	IgG concentration 0.5 mg/ml
<b>Immunogen</b>	Purified bovine IgA
<b>Specificity</b>	<b>Sheep anti Bovine IgA antibody</b> recognizes bovine IgA and shows no cross reactivity with other bovine immunoglobulin classes in immunoelectrophoresis. This antibody may recognize IgA from other species, though this has not been verified.

IgA is the predominant surface secreted immunoglobulin from the intestinal, urogenital and respiratory tracts. IgA functions in a protective capacity, primarily, by preventing viruses and bacteria from adhering to epithelial tissues. High concentrations of IgA are found in saliva, colostrum, milk, tear duct fluid, urine and nasal fluid.

In addition to this polyclonal antibody, we have a monoclonal Mouse anti Bovine IgA , clone IL-A71 antibody ([MCA2438GA](#) ) available which is specific for bovine IgA, also available in a peroxidase conjugated format.

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<b>References</b>	1. Calvo-Lorenzo, M.S. <i>et al.</i> (2016) Wooden hutch space allowance influences male Holstein calf health, performance, daily lying time, and respiratory immunity. <a href="#">J Dairy Sci. 99 (6): 4678-92.</a> 2. González-Hernández A <i>et al.</i> (2016) Host protective ASP-based vaccine against the parasitic nematode <i>Ostertagia ostertagi</i> triggers NK cell activation and mixed IgG1-IgG2 response. <a href="#">Sci Rep. 6: 29496.</a>
<b>Further Reading</b>	1. Morton, H.C. <i>et al.</i> (2004) Cloning and characterization of an immunoglobulin A Fc receptor from cattle. <a href="#">Immunology. 111 (2): 204-11.</a>
<b>Storage</b>	Store at +4°C. DO NOT FREEZE. This product should be stored undiluted.
<b>Shelf Life</b>	12 months from date of despatch
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10089 available at: 10089: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10089.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10089.pdf</a>
<b>Regulatory</b>	For research purposes only

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