

## Datasheet: AAI49P

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

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			■	
Immunohistology - Frozen	■			1/200 - 1/2000
Immunohistology - Paraffin			■	
ELISA	■			1/10,000 - 1/100,000
Immunoprecipitation			■	
Western Blotting	■			1/2000 - 1/20,000
Immunocytochemistry	■			1/200 - 1/2000

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.

<b>Target Species</b>	Bovine
<b>Product Form</b>	Purified IgG conjugated to Horseradish Peroxidase (HRP) - 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>	Phosphate buffered saline.
<b>Preservative</b>	0.05% ProClin 300
<b>Stabilisers</b>	0.2% Bovine Serum Albumin
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 mg/ml.

<b>Immunogen</b>	Purified bovine IgA
<b>Specificity</b>	<p><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.</p> <p>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.</p> <p>In addition to this polyclonal antibody, we have a monoclonal Mouse anti Bovine IgA , clone IL-A71 antibody (<a href="#">MCA2438GA</a> ) available which is specific for bovine IgA, also available in a peroxidase conjugated format.</p>
<b>References</b>	<ol style="list-style-type: none"> <li>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></li> <li>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></li> <li>3. Springer, A. <i>et al.</i> (2022) Immunization Trials with Recombinant Major Sperm Protein of the Bovine Lungworm <i>Dictyocaulus viviparus</i>.. <a href="#">Pathogens 11, 55.</a></li> </ol>
<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>	<p>This product is shipped at ambient temperature.</p> <p>Store at +4°C. DO NOT FREEZE.</p> <p>This product should be stored undiluted. Should this product contain a precipitate we recommend microcentrifugation before use.</p>
<b>Guarantee</b>	12 months from date of despatch.
<b>Acknowledgements</b>	ProClin is a trademark of The Dow Chemical Company ("Dow") or an affiliated company of Dow.
<b>Health And Safety Information</b>	<p>Material Safety Datasheet documentation #20391 available at: <a href="https://www.bio-rad-antibodies.com/SDS/AAI49P">https://www.bio-rad-antibodies.com/SDS/AAI49P</a></p> <p>20391</p>
<b>Regulatory</b>	For research purposes only.

<b>North &amp; South America</b>	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a>	<b>Worldwide</b>	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a>	<b>Europe</b>	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a>
----------------------------------	---	------------------	---	---------------	---

To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)  
'M438971:250523'

