

## Datasheet: AAI49P

**BATCH NUMBER 163932**

<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

**Antiserum Preparation** Antisera to bovine IgA were raised by repeated immunisation of sheep with highly purified antigen. Purified IgG prepared by affinity chromatography.

**Buffer Solution** Phosphate buffered saline.

**Preservative** 0.05% Proclin 300  
**Stabilisers** 0.2% Bovine Serum Albumin

**Approx. Protein** IgG concentration 1.0 mg/ml.

## Concentrations

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**Immunogen** Purified bovine IgA

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**Specificity** **Sheep anti Bovine IgA antibody** 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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**References**

1. Calvo-Lorenzo, M.S. *et al.* (2016) Wooden hutch space allowance influences male Holstein calf health, performance, daily lying time, and respiratory immunity. [J Dairy Sci. 99 \(6\): 4678-92.](#)
2. 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.](#)
3. Springer, A. *et al.* (2022) Immunization Trials with Recombinant Major Sperm Protein of the Bovine Lungworm *Dictyocaulus viviparus*.. [Pathogens 11, 55.](#)

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**Further Reading**

1. Morton, H.C. *et al.* (2004) Cloning and characterization of an immunoglobulin A Fc receptor from cattle. [Immunology. 111 \(2\): 204-11.](#)

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**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.

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**Guarantee** 12 months from date of despatch.

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**Acknowledgements** Proclin is a trademark of The Dow Chemical Company ("Dow") or an affiliated company of Dow.

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**Health And Safety Information** Material Safety Datasheet documentation #20391 available at: <https://www.bio-rad-antibodies.com/SDS/AAI49P20391>

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**Regulatory** For research purposes only.

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