

## Datasheet: AAI49

**BATCH NUMBER 167925**

|                      |                       |
|----------------------|-----------------------|
| <b>Description:</b>  | SHEEP ANTI BOVINE IgA |
| <b>Specificity:</b>  | IgA                   |
| <b>Format:</b>       | Purified              |
| <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)                  | ▪   |    |                | 1/1000 - 1/30,000  |
| Immunoprecipitation        |     |    | ▪              |                    |
| Western Blotting           | ▪   |    |                | 1/1000 - 1/30,000  |
| Immunocytochemistry        | ▪   |    |                | 1/200 - 1/2000     |

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.

(1)For coating plates it is recommended that a dilution of 1/100 - 1/500 be used

|                                 |  |
|---------------------------------|--|
| <b>Target Species</b>           | Bovine   |
| <b>Product Form</b>             | Purified IgG - 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 Stabilisers</b> | 0.09% Sodium Azide (NaN <sub>3</sub> )   |

|                                       |  |
|---------------------------------------|--|
| <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>                        | Store at +4°C. DO NOT FREEZE.<br>This product should be stored undiluted.  |
| <b>Guarantee</b>                      | 12 months from date of despatch  |
| <b>Health And Safety Information</b>  | Material Safety Datasheet documentation #10040 available at: <a href="https://www.bio-rad-antibodies.com/SDS/AAI4910040">https://www.bio-rad-antibodies.com/SDS/AAI4910040</a>   |
| <b>Regulatory</b>                     | For research purposes only   |

## Related Products

### Recommended Secondary Antibodies

Rabbit Anti Sheep IgG (H/L) (5184-2304...) [Biotin](#)

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

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