# Datasheet: AAI31

## BATCH NUMBER 160128

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| **Description:** | GOAT ANTI DOG IgA |
| **Specificity:** | IgA |
| **Format:** | Purified |
| **Product Type:** | Polyclonal Antibody |
| **Isotype:** | Polyclonal IgG |
| **Quantity:** | 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.

| | Yes | No | Not Determined | Suggested Dilution |
|---|---|---|---|---|
| Flow Cytometry | | | ▪ | |
| Immunohistology - Frozen | ▪ | | | 1/200 - 1/2000 |
| Immunohistology - Paraffin | | | ▪ | |
| ELISA | ▪ | | | 1/100 - 1/30000 |
| Immunoprecipitation | | | ▪ | |
| Western Blotting | ▪ | | | Reducing conditions |
| Immunodiffusion | ▪ | | | |

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**

Dog

**Species Cross Reactivity**

Reacts with: Ferret, Wolf
Based on sequence similarity, is expected to react with:Mustelid
**N.B.** Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

**Product Form**

Purified IgG - Liquid

**Antiserum Preparation**

Antisera to canine IgA were raised by repeated immunisation of goat with highly purified antigen. Purified IgG prepared by affinity chromatography.

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| **Buffer Solution** | Phosphate buffered saline |
| **Preservative Stabilisers** | 0.09% Sodium Azide |
| **Approx. Protein Concentrations** | IgG concentration 1.0 mg/ml |
| **Immunogen** | Purified canine IgA. |
| **RRID** | AB_323059 |
| **Specificity** | **Goat anti Dog IgA polyclonal antibody** recognizes canine IgA and shows no cross reactivity with other canine immunoglobulin classes in immunoelectrophoresis or ELISA.<br><br>Goat anti Dog IgA may cross react with IgA from other species. Goat anti Dog IgA polyclonal antibody has been shown to cross react with IgA from other canids (Frankowiack *et al.* 2013) and with mustelids (Martel *et al.* 2009). |
| **References** | 1. Benyacoub, J. *et al.* (2003) Supplementation of food with *Enterococcus faecium* (SF68) stimulates immune functions in young dogs. J Nutr. 133 (4): 1158-62.<br>2. Peters, I.R. *et al.* (2004) Measurement of immunoglobulin concentrations in the feces of healthy dogs. Clin Diagn Lab Immunol. 11 (5): 841-8.<br>3. Simpson, K.W. *et al.* (2009) Influence of *Enterococcus faecium* SF68 probiotic on giardiasis in dogs. J Vet Intern Med. 23: 476-81.<br>4. Martel, C.J. & Aasted, B. (2009) Characterization of antibodies against ferret immunoglobulins, cytokines and CD markers. Vet Immunol Immunopathol. 132:109-15.<br>5. Huang, S.S. *et al.* (2012) Differential Pathological and Immune Responses in Newly Weaned Ferrets Are Associated with a Mild Clinical Outcome of Pandemic 2009 H1N1 Infection. J Virol. 86: 13187-201.<br>6. Frankowiack, M. *et al.* (2013) IgA deficiency in wolves. Dev Comp Immunol. 40 (2): 180-4.<br>7. Olsson M *et al.* (2014) The dog as a genetic model for immunoglobulin A (IgA) deficiency: identification of several breeds with low serum IgA concentrations. Vet Immunol Immunopathol. 160 (3-4): 255-9.<br>8. Frankowiack, M. *et al.* (2015) IgA deficiency in wolves from Canada and Scandinavia. Dev Comp Immunol. 50 (1): 26-8.<br>9. Lee, A. *et al.* (2015) Lack of correlation between mucosal immunoglobulin A-positive plasma cell numbers and TLR5 genotypes in German shepherd dogs with idiopathic chronic enteropathy. J Comp Pathol. 152 (2-3): 201-5.<br>10. Tengvall, K. *et al.* (2013) Genome-wide analysis in German shepherd dogs reveals association of a locus on CFA 27 with atopic dermatitis. PLoS Genet. 9 (5): e1003475.<br>11. Martínez-López, L.M. *et al.* (2021) Hierarchical modelling of immunoglobulin coated bacteria in dogs with chronic enteropathy shows reduction in coating with disease remission but marked inter-individual and treatment-response variability. PLoS One. 16 (8): e0255012.<br>12. Sfacteria, A. *et al.* (2021) Immune Cells and Immunoglobulin Expression in the Mammary Gland Tumors of Dog. Animals (Basel). 11(5):1189. |

13. Rossi, G. *et al.* (2020) Effects of the Probiotic Mixture Slab51® (SivoMixx®) as Food Supplement in Healthy Dogs: Evaluation of Fecal Microbiota, Clinical Parameters and Immune Function. Front Vet Sci. 7: 613.
14. Satyaraj, E. *et al.* (2021) Supplementation of Diets With *Spirulina* Influences Immune and Gut Function in Dogs. Front Nutr. 8: 667072.

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| **Storage** | Store at +4°C. DO NOT FREEZE.<br>This product should be stored undiluted. Should this product contain a precipitate we recommend microcentrifugation before use. |
| **Guarantee** | 12 months from date of despatch |
| **Health And Safety Information** | Material Safety Datasheet documentation #10040 available at:<br>https://www.bio-rad-antibodies.com/SDS/AAI31<br>10040 |
| **Regulatory** | For research purposes only |

## Related Products

### Recommended Secondary Antibodies

Rabbit Anti Goat IgG (Fc) (STAR122...) FITC, HRP

**North & South America** Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com
**Worldwide** Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com
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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
'M363637:200528'

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