

## Datasheet: AAI31F

**BATCH NUMBER 153792**

<b>Description:</b>	GOAT ANTI DOG IgA:FITC
<b>Specificity:</b>	IgA
<b>Format:</b>	FITC
<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	▪			1/50 - 1/500
Immunohistology - Paraffin			▪	

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 fraction conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid

#### Max Ex/Em

Fluorophore	Excitation Max (nm)	Emission Max (nm)
FITC	490	525

**Antiserum Preparation** Antisera to canine IgA were raised by repeated immunisation of goat 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 0.2% Bovine Serum Albumin
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 mg/ml
<b>Immunogen</b>	Purified canine IgA.
<b>RRID</b>	AB_323058
<b>Specificity</b>	<p><b>Goat anti Dog IgA polyclonal antibody</b> recognizes canine IgA and shows no cross reactivity with other canine immunoglobulin classes in immunoelectrophoresis or ELISA.</p> <p>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 (<a href="#">Frankowiack et al. 2013</a>) and with mustelids (<a href="#">Martel et al. 2009</a>).</p>
<b>References</b>	<ol style="list-style-type: none"> <li>1. Benyacoub, J. <i>et al.</i> (2003) Supplementation of food with <i>Enterococcus faecium</i> (SF68) stimulates immune functions in young dogs. <a href="#">J Nutr. 133 (4): 1158-62.</a></li> <li>2. Peters, I.R. <i>et al.</i> (2004) Measurement of immunoglobulin concentrations in the feces of healthy dogs. <a href="#">Clin Diagn Lab Immunol. 11 (5): 841-8.</a></li> <li>3. Simpson, K.W. <i>et al.</i> (2009) Influence of <i>Enterococcus faecium</i> SF68 probiotic on giardiasis in dogs. <a href="#">J Vet Intern Med. 23: 476-81.</a></li> <li>4. Martel, C.J. &amp; Aasted, B. (2009) Characterization of antibodies against ferret immunoglobulins, cytokines and CD markers. <a href="#">Vet Immunol Immunopathol. 132:109-15.</a></li> <li>5. Huang, S.S. <i>et al.</i> (2012) Differential Pathological and Immune Responses in Newly Weaned Ferrets Are Associated with a Mild Clinical Outcome of Pandemic 2009 H1N1 Infection. <a href="#">J Virol. 86: 13187-201.</a></li> <li>6. Frankowiack, M. <i>et al.</i> (2013) IgA deficiency in wolves. <a href="#">Dev Comp Immunol. 40 (2): 180-4.</a></li> <li>7. Olsson M <i>et al.</i> (2014) The dog as a genetic model for immunoglobulin A (IgA) deficiency: identification of several breeds with low serum IgA concentrations. <a href="#">Vet Immunol Immunopathol. 160 (3-4): 255-9.</a></li> <li>8. Frankowiack, M. <i>et al.</i> (2015) IgA deficiency in wolves from Canada and Scandinavia. <a href="#">Dev Comp Immunol. 50 (1): 26-8.</a></li> <li>9. Lee, A. <i>et al.</i> (2015) Lack of correlation between mucosal immunoglobulin A-positive plasma cell numbers and TLR5 genotypes in German shepherd dogs with idiopathic chronic enteropathy. <a href="#">J Comp Pathol. 152 (2-3): 201-5.</a></li> <li>10. Tengvall, K. <i>et al.</i> (2013) Genome-wide analysis in German shepherd dogs reveals association of a locus on CFA 27 with atopic dermatitis. <a href="#">PLoS Genet. 9 (5): e1003475.</a></li> <li>11. Martínez-López, L.M. <i>et al.</i> (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. <a href="#">PLoS One. 16 (8): e0255012.</a></li> <li>12. Sfacteria, A. <i>et al.</i> (2021) Immune Cells and Immunoglobulin Expression in the Mammary Gland Tumors of Dog. <a href="#">Animals (Basel). 11(5):1189.</a></li> </ol>

13. Rossi, G. *et al.* (2020) Effects of the Probiotic Mixture Slab51<sup>®</sup> (SivoMixx<sup>®</sup>) 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.  
This product should be stored undiluted. This product is photosensitive and should be protected from light. 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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**Health And Safety Information** Material Safety Datasheet documentation #10041 available at: <https://www.bio-rad-antibodies.com/SDS/AAI31F10041>

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**Regulatory** For research purposes only

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