

Datasheet: AAI21F

Description:	SHEEP ANTI BOVINE IgG1:FITC
Specificity:	IgG1
Format:	FITC
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	▪			1/20 - 1/100
Immunohistology - Frozen	▪			1/20 - 1/100
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	Bovine		
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 bovine IgG1 were raised by repeated immunisation of sheep with highly purified antigen. Purified IgG prepared by affinity chromatography.

Buffer Solution Phosphate buffered saline

Preservative Stabilisers 0.09% Sodium Azide

Approx. Protein Concentrations IgG concentration 1.0 mg/ml

Immunogen	Purified bovine IgG1.
RRID	AB_323070
Specificity	<p>Sheep anti Bovine IgG1 polyclonal antibody recognizes bovine IgG1.</p> <p>No cross-reactivity with other bovine immunoglobulin classes is seen in immunoelectrophoresis. This product may cross-react with IgG1 from other species.</p>
References	<ol style="list-style-type: none"> 1. Makepeace, B.L. <i>et al.</i> (2009) Immunisation with a multivalent, subunit vaccine reduced patent infection in a natural bovine model of Onchocerciasis during intense field exposure. PLoS Negl. Trop. Dis. 3: e544. 2. Colwell, D.D. <i>et al.</i> (2010) <i>Dicrocoelium dendriticum</i> in cattle from Cypress Hills, Canada: Humoral response and preliminary evaluation of an ELISA. Vet Parasitol. 174: 162-5. 3. Assad, A. <i>et al.</i> (2012) Immunophenotyping and characterization of BNP colostrum revealed pathogenic alloantibodies of IgG1 subclass with specificity to platelets, granulocytes and monocytes of all maturation stages. Vet Immunol Immunopathol. 147: 25-34. 4. Ploegaert, T.C. <i>et al.</i> (2010) Genetic variation of natural antibodies in milk of Dutch Holstein-Friesian cows. J Dairy Sci. 93: 5467-73. 5. Laviora, M.Á. <i>et al.</i> (2012) Avidity and subtyping of specific antibodies applied to the indirect assessment of heterologous protection against Foot-and-Mouth Disease Virus in cattle. Vaccine. 30: 6845-50. 6. Mansilla, F.C. <i>et al.</i> (2013) Dose-dependent immunogenicity of a soluble <i>Neospora caninum</i> tachyzoite-extract vaccine formulated with a soy lecithin/β-glucan adjuvant in cattle. Vet Parasitol. pii: S0304-4017(13)00252-5. 7. Panadero, R. <i>et al.</i> (2013) Effect of reinfestations on systemic immune responses in cattle naturally infested by <i>Hypoderma</i> sp. (Diptera: Oestridae). Vet Parasitol. 193: 238-44. 8. Van Meulder, F. <i>et al.</i> (2013) Granule exocytosis of granulysin and granzyme B as a potential key mechanism in vaccine-induced immunity in cattle against the nematode <i>Ostertagia ostertagi</i>. Infect Immun. 81: 1798-809. 9. Vordermeier, H.M. <i>et al.</i> (2003) Improved immunogenicity of DNA vaccination with mycobacterial HSP65 against bovine tuberculosis by protein boosting. Vet Microbiol. 93: 349-59. 10. Hansen, E.R. <i>et al.</i> (1989) Cutaneous T-cell lymphoma lesional epidermal cells activate autologous CD4+ T lymphocytes: involvement of both CD1+OKM5+ and CD1+OKM5- antigen-presenting cells. J Invest Dermatol. 94: 485-91. 11. Fiedor, C. <i>et al.</i> (2009) Evaluation of a milk ELISA for the serodiagnosis of <i>Dictyocaulus viviparus</i> in dairy cows. Vet Parasitol. 166: 255-61. 12. Almería, S. <i>et al.</i> (2009) Specific anti-<i>Neospora caninum</i> IgG1 and IgG2 antibody responses during gestation in naturally infected cattle and their relationship with gamma interferon production. Vet Immunol Immunopathol. 130: 35-42. 13. Trotta, M. <i>et al.</i> (2015) Simultaneous immunization of cattle with foot-and-mouth disease (FMD) and live anthrax vaccines do not interfere with FMD booster responses Trials in Vaccinology. 4: 38-42. 14. Prado, M.E. <i>et al.</i> (2011) Vaccination of dairy cows with recombinant <i>Streptococcus</i>

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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.

Guarantee

12 months from date of despatch

Health And Safety Information

Material Safety Datasheet documentation #10040 available at: 10040: <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

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