

## Datasheet: AAI19F

**BATCH NUMBER 148555**

<b>Description:</b>	SHEEP ANTI BOVINE IgM:FITC
<b>Specificity:</b>	IgM
<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	▪			1/20 - 1/100
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

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 IgM 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  
0.2% Bovine Serum Albumin

#### Approx. Protein Concentrations

IgG concentration 1.0 mg/ml

<b>Immunogen</b>	Purified bovine IgM.
<b>RRID</b>	AB_323076
<b>Specificity</b>	<b>Sheep anti bovine IgM</b> recognizes bovine IgM and shows no cross-reactivity with other bovine immunoglobulin classes in immunoelectrophoresis. Sheep anti bovine IgM may cross-react with IgM from other species.
<b>References</b>	<ol style="list-style-type: none"> <li>1. Nebl, T. <i>et al.</i> (2002) Proteomic analysis of a detergent-resistant membrane skeleton from neutrophil plasma membranes. <a href="#">J Biol Chem. 277 (45): 43399-409.</a></li> <li>2. 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. <a href="#">Vet Immunol Immunopathol. 147: 25-34.</a></li> <li>3. Hamsten, C. <i>et al.</i> (2009) Recombinant surface proteomics as a tool to analyze humoral immune responses in bovines infected by <i>Mycoplasma mycoides</i> subsp. <i>mycoides</i> small colony type. <a href="#">Mol Cell Proteomics. 8: 2544-54.</a></li> <li>4. Mansilla FC <i>et al.</i> (2015) Safety and immunogenicity of a soluble native <i>Neospora caninum</i> tachyzoite-extract vaccine formulated with a soy lecithin/<math>\beta</math>-glucan adjuvant in pregnant cattle. <a href="#">Vet Immunol Immunopathol. 165 (1-2): 75-80.</a></li> <li>5. Hossain, M.M. <i>et al.</i> (2016) Multiplex Detection of IgG and IgM to Rift Valley Fever Virus Nucleoprotein, Nonstructural Proteins, and Glycoprotein in Ovine and Bovine. <a href="#">Vector Borne Zoonotic Dis. 16 (8): 550-7.</a></li> <li>6. Van Meulder, F. <i>et al.</i> (2015) Analysis of the protective immune response following intramuscular vaccination of calves against the intestinal parasite <i>Cooperia oncophora</i>. <a href="#">Int J Parasitol. 45 (9-10): 637-46.</a></li> <li>7. Jankowska, A. <i>et al.</i> (2016) Humoral and cellular immune response to <i>Histophilus somni</i> recombinant heat shock protein 60 kDa in farm animals <a href="#">Veterinárni Medicína. 60 (No. 11): 603-12.</a></li> <li>8. Çokçalışkan, C. <i>et al.</i> (2019) Effect of simultaneous administration of foot-and-mouth disease (FMD) and anthrax vaccines on antibody response to FMD in sheep. <a href="#">Clin Exp Vaccine Res. 8 (2): 103-9.</a></li> <li>9. 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 2022, 11, 55.</a></li> <li>10. Di Giacomo, S <i>et al.</i> (2022) Assessment on Different Vaccine Formulation Parameters in the Protection against Heterologous Challenge with FMDV in Cattle <a href="#">Viruses. 14 (8): 1781.</a></li> </ol>
<b>Storage</b>	<p>Store at +4°C. DO NOT FREEZE.</p> <p>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.</p>
<b>Guarantee</b>	12 months from date of despatch
<b>Health And Safety Information</b>	<p>Material Safety Datasheet documentation #10041 available at: <a href="https://www.bio-rad-antibodies.com/SDS/AA119F">https://www.bio-rad-antibodies.com/SDS/AA119F</a></p> <p>10041</p>

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