

Datasheet: MCA2212A647

**BATCH NUMBER 150606**

<b>Description:</b>	MOUSE ANTI SHEEP CD1:Alexa Fluor® 647
<b>Specificity:</b>	CD1
<b>Format:</b>	ALEXA FLUOR® 647
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	20.27
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	100 TESTS/1ml

## 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	▪			Neat - 1/10

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 systems using appropriate negative/positive controls.

### Target Species

Sheep

### Species Cross Reactivity

Reacts with: Goat, Bovine

**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 conjugated to Alexa Fluor® 647- liquid

### Max Ex/Em

Fluorophore	Excitation Max (nm)	Emission Max (nm)
Alexa Fluor®647	650	665

### Preparation

Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant

### Buffer Solution

Phosphate buffered saline

<b>Preservative</b>	0.09% Sodium Azide
<b>Stabilisers</b>	1% Bovine Serum Albumin
<b>Approx. Protein Concentrations</b>	IgG concentration 0.05mg/ml
<b>Immunogen</b>	Ovine thymocytes
<b>External Database Links</b>	<p><b>UniProt:</b></p> <p><a href="#">Q29422</a>      <a href="#">Related reagents</a></p> <p><a href="#">O62848</a>      <a href="#">Related reagents</a></p> <p><a href="#">Q28565</a>      <a href="#">Related reagents</a></p> <p><a href="#">P80943</a>      <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b></p> <p><a href="#">443441</a>      LOC443441      <a href="#">Related reagents</a></p> <p><a href="#">100144424</a>      CD1D      <a href="#">Related reagents</a></p> <p><a href="#">443423</a>      CD1B      <a href="#">Related reagents</a></p> <p><a href="#">100144425</a>      CD1      <a href="#">Related reagents</a></p>
<b>RRID</b>	AB_2137145
<b>Fusion Partners</b>	Spleen cells from immunised BALB/c mice were fused with cells of the mouse NS-1 myeloma cell line
<b>Specificity</b>	<b>Mouse anti Sheep CD1 antibody, clone 20.27</b> recognises the ovine CD1 cell surface antigen. CD1 is primarily expressed in cortical thymocytes and dendritic cells in the dermis, afferent lymph, lymph node, spleen and thymus. Mouse anti Sheep CD1 antibody, clone 20.27 does not bind to granulocytes, platelets or erythrocytes.
<b>Flow Cytometry</b>	Use 10ul of the suggested working dilution to label 1 x 10 <sup>6</sup> cells in 100ul.
<b>References</b>	<ol style="list-style-type: none"> <li>1. Mackay, C.R. <i>et al.</i> (1985) Characterization of two sheep lymphocyte differentiation antigens, SBU-T1 and SBU-T6. <a href="#">Immunology. 55 (4): 729-37.</a></li> <li>2. Mackay, C.R. <i>et al.</i> (1986) Thymocyte subpopulations during early fetal development in sheep. <a href="#">J Immunol. 136 (5): 1592-9.</a></li> <li>3. Hemati, B. <i>et al.</i> (2009) Bluetongue virus targets conventional dendritic cells in skin lymph. <a href="#">J Virol. 83: 8789-99.</a></li> <li>4. Chan, S.S. <i>et al.</i> (2002) Generation and characterization of ovine dendritic cells derived from peripheral blood monocytes. <a href="#">Immunology 107: 366-72.</a></li> </ol>
<b>Storage</b>	<p>Store at +4°C or at -20°C if preferred.</p> <p>This product should be stored undiluted.</p> <p>Storage in frost-free freezers is not recommended. This product is photosensitive and should be protected from light.</p>

Avoid repeated freezing and thawing as this may denature the antibody. 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/MCA2212A647>  
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**Regulatory** For research purposes only

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## Related Products

### Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:Alexa Fluor® 647 \(MCA928A647\)](#)

**North & South** Tel: +1 800 265 7376

**America** Fax: +1 919 878 3751

Email: [antibody\\_sales\\_us@bio-rad.com](mailto: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](mailto:antibody_sales_uk@bio-rad.com)

**Europe**

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: [antibody\\_sales\\_de@bio-rad.com](mailto:antibody_sales_de@bio-rad.com)

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