

Datasheet: MCA2212A647

Description:	MOUSE ANTI SHEEP CD1:Alexa Fluor® 647
Specificity:	CD1
Format:	ALEXA FLUOR® 647
Product Type:	Monoclonal Antibody
Clone:	20.27
Isotype:	IgG1
Quantity:	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.

	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		
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		
Buffer Solution	Phosphate buffered saline		
Preservative	0.09% Sodium Azide		
Stabilisers	1% Bovine Serum Albumin		
Approx. Protein Concentrations	IgG concentration 0.05mg/ml		
Immunogen	Ovine thymocytes		
External Database Links	UniProt:		

[Q29422](#) [Related reagents](#)
[Q62848](#) [Related reagents](#)
[Q28565](#) [Related reagents](#)
[P80943](#) [Related reagents](#)

Entrez Gene:

[443441](#) LOC443441 [Related reagents](#)
[100144424](#) CD1D [Related reagents](#)
[443423](#) CD1B [Related reagents](#)
[100144425](#) CD1 [Related reagents](#)

Fusion Partners Spleen cells from immunised BALB/c mice were fused with cells of the mouse NS-1 myeloma cell line

Specificity **Mouse anti Sheep CD1 antibody, clone 20.27** 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.

Flow Cytometry Use 10ul of the suggested working dilution to label 1 x 10⁶ cells in 100ul.

References

1. Mackay, C.R. *et al.* (1985) Characterization of two sheep lymphocyte differentiation antigens, SBU-T1 and SBU-T6. [Immunology. 55 \(4\): 729-37.](#)
2. Mackay, C.R. *et al.* (1986) Thymocyte subpopulations during early fetal development in sheep. [J Immunol. 136 \(5\): 1592-9.](#)
3. Hemati, B. *et al.* (2009) Bluetongue virus targets conventional dendritic cells in skin lymph. [J Virol. 83: 8789-99.](#)
4. Chan, S.S. *et al.* (2002) Generation and characterization of ovine dendritic cells derived from peripheral blood monocytes. [Immunology 107: 366-72.](#)

Storage Store at +4°C or at -20°C if preferred.

This product should be stored undiluted.

Storage in frost-free freezers is not recommended. This product is photosensitive and should be protected from light.

Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Shelf Life 18 months from date of despatch.

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Health And Safety Information Material Safety Datasheet documentation #10041 available at:
10041: <https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf>

Regulatory For research purposes only

Related Products

Recommended Negative Controls

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

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	Europe	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com
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