



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

RRID AB_2137145

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 tissue culture supernatant

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](#)
[O62848](#) [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 1×10^6 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.

Guarantee 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 \(MCA928A647\)](#)

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'M334541:181203'

Printed on 20 May 2019