

Datasheet: MCA2212GA

BATCH NUMBER 1601

Description:	MOUSE ANTI SHEEP CD1
Specificity:	CD1
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	20.27
Isotype:	IgG1
Quantity:	0.1 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	▪			1/25 - 1/100
Immunohistology - Frozen	▪			
Immunohistology - Paraffin			▪	
ELISA			▪	
Immunoprecipitation	▪			
Western Blotting			▪	
Immunofluorescence	▪			

Where this product 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 product for use in their own system 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 - liquid

Preparation

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

supernatant

Buffer Solution Phosphate buffered saline

Preservative Stabilisers 0.09% Sodium Azide

Carrier Free Yes

Approx. Protein Concentrations IgG concentration 1.0 mg/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. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Guarantee	12 months from date of despatch
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Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA2212GA 10040
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Regulatory	For research purposes only
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Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG (STAR70...)	FITC
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos. , HRP
Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight@488 , DyLight@550 , DyLight@650 , DyLight@680 , DyLight@800 , FITC , HRP
Rabbit Anti Mouse IgG (STAR13...)	HRP
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC

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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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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