

Datasheet: MCA2212GA

BATCH NUMBER 170958

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| 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 A from tissue culture

supernatant

Buffer Solution Phosphate buffered saline

Preservative Stabilisers 0.09% sodium azide (NaN₃)

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 10µl of the suggested working dilution to label 1 x 10⁶ cells in 100µl

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 This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for

short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

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| 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 |
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| Regulatory | For research purposes only |
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Related Products

Recommended Secondary Antibodies

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

Product inquiries: www.bio-rad-antibodies.com/technical-support

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

'M431615:240731'

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