

Datasheet: MCA2183A700

| Description: | RAT ANTI MOUSE CD13:Alexa Fluor® 700 |
|----------------------|--------------------------------------|
| Specificity: | CD13 |
| Other names: | AMINOPEPTIDASE N |
| Format: | ALEXA FLUOR® 700 |
| Product Type: | Monoclonal Antibody |
| Clone: | R3-63 |
| Isotype: | lgG2a |
| 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 |

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 | Mouse | | | |
|-----------------------------------|-----------------------------------|-----------------------|--------------------|--|
| Product Form | Purified IgG conjugate | ed to Alexa Fluor 700 | - liquid | |
| Max Ex/Em | Fluorophore | Excitation Max (nm) | Emission Max (nm | |
| | Alexa Fluor®700 | 702 | 723 | |
| Preparation | Purified IgG prepared supernatant | by affinity chromatog | raphy on Protein G | |
| Buffer Solution | Phosphate buffered saline | | | |
| Preservative | 0.09% sodium azide (| NaN ₃) | | |
| Stabilisers | 1% bovine serum albu | umin | | |
| Approx. Protein Concentrations | IgG concentration 0.09 | 5 mg/ml | | |

| Immunogen | Mouse intestinal APN | | | |
|----------------------------|--|--|--|--|
| External Database Links | UniProt: P97449 Related reagents | | | |
| | Entrez Gene: 16790 Anpep Related reagents | | | |
| Synonyms | Lap1, Lap-1 | | | |
| Fusion Partners | Spleen cells from immunized mice were fused with cells of the IR983F rat myeloma cell line. | | | |
| Specificity | Rat anti Mouse CD13 antibody, clone R3-63 recognizes mouse aminopeptidase N (APN), a cell surface protein homologous with human CD13. In the mouse, CD13 is a non-covalently linked homodimer of approximately 150 kDa subunits expressed by a variety of cells including monocytes, macrophages, dendritic cell and veiled cells. | | | |
| | Rat anti Mouse CD13 antibody, clone R3-63 has been reported to block mouse APN enzyme activity (<u>Hansen <i>et al.</i> 1993</u>). | | | |
| Flow Cytometry | Use 10µl of the suggested working dilution to label 10 ⁶ cells in 100µl. The Fc region of monoclonal antibodies may bind to cells expressing low affinity Fc receptors. This may be reduced by using SeroBlock FcR (BUF041A/BUF041B). | | | |
| References | Kamoun, W.S. <i>et al.</i> (2009) Edema control by cediranib, a vascular endothelial growth factor receptor-targeted kinase inhibitor, prolongs survival despite persistent brain tumor growth in mice. <u>J Clin Oncol. 27: 2542-52.</u> Hansen, A.S. <i>et al.</i> (1993) A mouse aminopeptidase N is a marker for antigenpresenting cells and appears to be co-expressed with major histocompatibility complex class II molecules. <u>Eur J Immunol. 23 (9): 2358-64.</u> Larsen, S.L. <i>et al.</i> (1996) T cell responses affected by aminopeptidase N (CD13)-mediated trimming of major histocompatibility complex class II-bound peptides. <u>J Exp Med. 184 (1): 183-9.</u> | | | |

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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. This product is photosensitive and should be protected from light.

Guarantee 12 months from date of despatch

Acknowledgements

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Health And Safety Information

Material Safety Datasheet documentation #10041 available at: https://www.bio-rad-antibodies.com/SDS/MCA2183A700

10041

Regulatory

For research purposes only

Related Products

Recommended Negative Controls

RAT IgG2a NEGATIVE CONTROL:Alexa Fluor® 700 (MCA1212A700)

Recommended Useful Reagents

MOUSE SEROBLOCK FcR (BUF041A)
MOUSE SEROBLOCK FcR (BUF041B)

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America Fax: +1 919 878 3751

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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 'M413194:221120'

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