

Datasheet: MCA2078PE

Description:	RAT ANTI MOUSE CD120a:RPE
Specificity:	CD120a
Other names:	TNF RECEPTOR TYPE I
Format:	RPE
Product Type:	Monoclonal Antibody
Clone:	HM104
Isotype:	IgG2a
Quantity:	100 TESTS

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 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 system using appropriate negative/positive controls.

Target Species	Mouse						
Product Form	Purified IgG conjugated to R. Phycoerythrin (RPE) - liquid						
Max Ex/Em	<table border="1"> <thead> <tr> <th>Fluorophore</th> <th>Excitation Max (nm)</th> <th>Emission Max (nm)</th> </tr> </thead> <tbody> <tr> <td>RPE 488nm laser</td> <td>496</td> <td>578</td> </tr> </tbody> </table>	Fluorophore	Excitation Max (nm)	Emission Max (nm)	RPE 488nm laser	496	578
Fluorophore	Excitation Max (nm)	Emission Max (nm)					
RPE 488nm laser	496	578					
Preparation	Purified IgG prepared by ion exchange chromatography.						
Buffer Solution	Phosphate buffered saline						
Preservative	0.02% Sodium Azide						
Stabilisers	0.5% Bovine Serum Albumin						
External Database Links	<p>UniProt: P25118 Related reagents</p> <p>Entrez Gene: 21937 Tnfrsf1a Related reagents</p>						
Synonyms	Tnfr1, Tnfr-1						

Specificity **Rat anti Mouse CD120a antibody, clone HM104** recognizes an extracellular region of mouse CD120a, also known as TNF receptor type I (TNFR1). TNFR1 is an ubiquitously expressed transmembrane glycoprotein and member of the tumor necrosis factor receptor (TNFR) superfamily, which plays a key role in regulating the inflammatory response, acting as a receptor for tumor necrosis factor alpha (TNF-alpha) and lymphotoxin-alpha (TNF-beta).

CD120a also plays a role in apoptosis, cytokine induction, cell differentiation, tumor necrosis and early stages of graft-versus-host disease, and its soluble form sTNFR1, acts as an inhibitor of TNF-alpha induced responses by acting as a decoy receptor.

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

The Fc region of monoclonal antibodies may bind non-specifically to cells expressing low affinity fc receptors. This may be reduced by using SeroBlock FcR ([BUF041A/B](#)).

References

1. Pearl-Yafe, M. *et al.* (2010) Tumor necrosis factor receptors support murine hematopoietic progenitor function in the early stages of engraftment. [Stem Cells. 28 \(7\): 1270-80.](#)
2. Nakagawa, J. *et al.* (2007) TNF expressed by tumor-associated macrophages, but not microglia, can eliminate glioma. [Int J Oncol. 30 \(4\): 803-11.](#)

Storage Store at +4°C.

DO NOT FREEZE.

This product should be stored undiluted. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use.

Shelf Life 6 months from date of despatch.

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

Regulatory For research purposes only

Related Products

Recommended Negative Controls

[RAT IgG2a NEGATIVE CONTROL:RPE \(MCA1212PE\)](#)

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Printed on 12 Feb 2018