

Datasheet: MCA2078PET

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:	25 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	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 Stabilisers	0.02% Sodium Azide		
	0.5% Bovine Serum Albumin		
External Database Links	UniProt:		
	P25118 Related reagents		
	Entrez Gene:		
	21937 Tnfrsf1a Related reagents		
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. <i>et al.</i> (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. <i>et al.</i> (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 \(MCA1212PE\)](#)

Recommended Useful Reagents

[MOUSE SEROBLOCK FcR \(BUF041A\)](#)

[MOUSE SEROBLOCK FcR \(BUF041B\)](#)

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