

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 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 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 from ascites		
Buffer Solution	Phosphate buffered saline		
Preservative Stabilisers	<0.1% sodium azide (NaN ₃)		
	0.2% bovine serum albumin		
External Database Links	UniProt: P25118 Related reagents		

Entrez Gene:[21937](#) [Tnfrsf1a](#) [Related reagents](#)

Synonyms	Tnfr1, Tnfr-1
RRID	AB_323589
Specificity	<p>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).</p> <p>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.</p>
Flow Cytometry	<p>Use 10µl of the suggested working dilution to label 10⁶ cells in 100µl.</p> <p>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).</p>
References	<ol style="list-style-type: none">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): 803-11.3. Li, P. <i>et al.</i> (2023) TNFR2 deficiency impairs the growth of mouse colon cancer Int J Biol Sci.19 (4): 1024-35.
Storage	<p>Store at +4°C.</p> <p>DO NOT FREEZE.</p> <p>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.</p>
Guarantee	6 months from date of despatch
Health And Safety Information	<p>Material Safety Datasheet documentation #10041 available at: https://www.bio-rad-antibodies.com/SDS/MCA2078PE</p> <p>10041</p>
Regulatory	For research purposes only

Related Products

Recommended Negative Controls

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

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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

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