

Datasheet: MCA925F

Description:	RAT ANTI MOUSE CD48:FITC
Specificity:	CD48
Other names:	BLAST-1
Format:	FITC
Product Type:	Monoclonal Antibody
Clone:	OX-78
Isotype:	IgG2a
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	▪			Neat
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	

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 Fluorescein Isothiocyanate Isomer 1 (FITC) - 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>FITC</td> <td>490</td> <td>525</td> </tr> </tbody> </table>	Fluorophore	Excitation Max (nm)	Emission Max (nm)	FITC	490	525
Fluorophore	Excitation Max (nm)	Emission Max (nm)					
FITC	490	525					
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant						
Buffer Solution	Phosphate buffered saline						
Preservative	0.09% Sodium Azide						
Stabilisers	1% Bovine Serum Albumin						

Immunogen	Recombinant soluble mouse CD48.
External Database Links	<p>UniProt: P18181 Related reagents</p> <p>Entrez Gene: 12506 Cd48 Related reagents</p>
Synonyms	Bcm-1
RRID	AB_321440
Fusion Partners	Spleen cells from immunized AO Rats were fused with cells from the Rat Y3 myeloma cell line.
Specificity	<p>Rat anti Mouse CD48 antibody, clone OX-78 recognizes murine CD48 antigen, also known as BCM1 surface antigen, BLAST-1, HM48-1, MRC OX-45 surface antigen, SLAM family member 2. CD48 is a 195 amino acid GPI anchored membrane glycoprotein with an additional 22 amino acid signal peptide and a 23 amino acid propeptide region cleaved in the mature form.</p> <p>Rat anti Mouse CD48 antibody, clone OX-78 labels mouse thymocytes, B and T cells and macrophages. CD48 is a ligand for the mouse CD2 cell surface antigen.</p>
Flow Cytometry	<p>Use 10ul of the suggested working dilution to label 10⁶ cells in 100ul.</p> <p>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).</p>
References	<ol style="list-style-type: none"> 1. Kato, K. <i>et al.</i> (1992) CD48 is a counter-receptor for mouse CD2 and is involved in T cell activation. J Exp Med. 176 (5): 1241-9. 2. Wild, M.K. <i>et al.</i> (1999) Dependence of T cell antigen recognition on the dimensions of an accessory receptor-ligand complex. J Exp Med. 190: 31-41. 3. Lapaque, N. <i>et al.</i> (2006) Characterization of <i>Brucella abortus</i> lipopolysaccharide macrodomains as mega rafts. Cell Microbiol. 8 (2): 197-206. 4. Grassinger, J. <i>et al.</i> (2010) Phenotypically identical hemopoietic stem cells isolated from different regions of bone marrow have different biologic potential. Blood. 116 (17): 3185-96. 5. Kashiwakura, Y. <i>et al.</i> (2013) CD2-mediated regulation of peripheral CD4(+) CD25(+) regulatory T-cell apoptosis accompanied by down-regulation of Bim. Immunology. 139 (1): 48-60. 6. Oh, J. <i>et al.</i> (2018) MARCH1 protects the lipid raft and tetraspanin web from MHCII proteotoxicity in dendritic cells. J Cell Biol. 217 (4): 1395-410.
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
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Health And Safety Information	Material Safety Datasheet documentation #10041 available at: https://www.bio-rad-antibodies.com/SDS/MCA925F 10041
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Regulatory	For research purposes only
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Related Products

Recommended Negative Controls

[RAT IgG2a NEGATIVE CONTROL:FITC \(MCA1212F\)](#)

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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
'M384836:210513'

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