

# Datasheet: MCA925PE BATCH NUMBER 151258

Description:RAT ANTI MOUSE CD48:RPESpecificity:CD48Other names:BLAST-1Format:RPEProduct Type:Monoclonal AntibodyClone:OX-78Isotype:IgG2aQuantity:100 TESTS		
Other names: BLAST-1  Format: RPE  Product Type: Monoclonal Antibody  Clone: OX-78  Isotype: IgG2a	Description:	RAT ANTI MOUSE CD48:RPE
Format: RPE  Product Type: Monoclonal Antibody  Clone: OX-78  Isotype: IgG2a	Specificity:	CD48
Product Type: Monoclonal Antibody  Clone: OX-78  Isotype: IgG2a	Other names:	BLAST-1
Clone: OX-78 Isotype: IgG2a	Format:	RPE
Isotype: IgG2a	Product Type:	Monoclonal Antibody
	Clone:	OX-78
Quantity: 100 TESTS	Isotype:	lgG2a
	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 <a href="www.bio-rad-antibodies.com/protocols">www.bio-rad-antibodies.com/protocols</a>.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	-			Neat - 1/5

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 conjuga	ated to R. Phycoerythrin	(RPE) - lyophilized	
Reconstitution	Reconstitute with 1	ml distilled water		
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)	
	RPE 488nm laser	496	578	
Preparation	Purified IgG prepare supernatant	ed by affinity chromatog	raphy on Protein G from tissue o	cultur
Buffer Solution	Phosphate buffered	saline		
Preservative	0.09% Sodium Azid	e		
Stabilisers	1% Bovine Seru	m Albumin		

	5% Sucrose
Immunogen	Recombinant soluble mouse CD48.
External Database Links	UniProt: P18181 Related reagents
	Entrez Gene:  12506 Cd48 Related reagents
Synonyms	Bcm-1
RRID	AB_321441
Fusion Partners	Spleen cells from immunized AO Rats were fused with cells from the Rat Y3 myeloma cell line.
Specificity	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.
	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.
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 <sup>6</sup> 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 ( <u>BUF041A/B</u> ).
References	<ol> <li>Kato, K. et al. (1992) CD48 is a counter-receptor for mouse CD2 and is involved in T cell activation. J Exp Med. 176 (5): 1241-9.</li> <li>Lapaque, N. et al. (2006) Characterization of Brucella abortus lipopolysaccharide macrodomains as mega rafts. Cell Microbiol. 8 (2): 197-206.</li> <li>Kashiwakura, Y. et al. (2013) CD2-mediated regulation of peripheral CD4(+) CD25(+) regulatory T-cell apoptosis accompanied by down-regulation of Bim. Immunology. 139 (1): 48-60.</li> <li>Wild, M.K. et al. (1999) Dependence of T cell antigen recognition on the dimensions of an accessory receptor-ligand complex. J Exp Med. 190: 31-41.</li> <li>Grassinger, J. et al. (2010) Phenotypically identical hemopoietic stem cells isolated from different regions of bone marrow have different biologic potential. Blood. 116 (17): 3185-96.</li> <li>Oh, J. et al. (2018) MARCH1 protects the lipid raft and tetraspanin web from MHCII proteotoxicity in dendritic cells. J Cell Biol. 217 (4): 1395-410.</li> </ol>

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Prior to reconstitution store at +4°C. Following reconstitution store at +4°C.

Storage

#### 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.

Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #20487 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA925PE">https://www.bio-rad-antibodies.com/SDS/MCA925PE</a> 20487
Regulatory	For research purposes only

## **Related Products**

America

# **Recommended Negative Controls**

RAT IgG2a NEGATIVE CONTROL:RPE (MCA1212PE)

Email: antibody\_sales\_us@bio-rad.com

### **Recommended Useful Reagents**

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

Fax: +1 919 878 3751

North & South Tel: +1 800 265 7376 Worldwide Tel: +44 (0)1865 852 700 Europe

Fax: +44 (0)1865 852 739

 ${\bf Email: antibody\_sales\_uk@bio-rad.com}$ 

Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50

Email: antibody\_sales\_de@bio-rad.com

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M375696:210104'

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