

Datasheet: MCA925PET

Description:	RAT ANTI MOUSE CD48:RPE
Specificity:	CD48
Other names:	BLAST-1
Format:	RPE
Product Type:	Monoclonal Antibody
Clone:	OX-78
Isotype:	IgG2a
Quantity:	25 TESTS

Product Details

RRID AB_2291318

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) - lyophilized

Reconstitution Reconstitute in 0.25 ml distilled water

Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	RPE 488nm laser	496	578

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
5% Sucrose

Immunogen Recombinant soluble mouse CD48.

External Database **UniProt:**

Links

[P18181](#) [Related reagents](#)

Entrez Gene:

[12506](#) Cd48 [Related reagents](#)

Synonyms

Bcm-1

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 10^6 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. 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.](#)
2. Lapaque, N. *et al.* (2006) Characterization of Brucella abortus lipopolysaccharide macrodomains as mega rafts. [Cell Microbiol. 8 \(2\): 197-206.](#)
3. 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.](#)
4. 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.](#)

Storage

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

12 months from date of reconstitution.

Health And Safety Information

Material Safety Datasheet documentation #10075 available at: 10075: <https://www.bio-rad-antibodies.com/uploads/MSDS/10075.pdf>

Regulatory

For research purposes only

Related Products

Recommended Negative Controls

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

North & South Tel: +1 800 265 7376

America Fax: +1 919 878 3751

Email: antibody_sales_us@bio-rad.com

Worldwide

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

Email: antibody_sales_uk@bio-rad.com

'M343350:190110'

Europe

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: antibody_sales_de@bio-rad.com

Printed on 10 Jan 2019

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