

Datasheet: MCA925GA

Description:	RAT ANTI MOUSE CD48
Specificity:	CD48
Other names:	BLAST-1
Format:	Purified
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	■			
Immunohistology - Frozen			■	
Immunohistology - Paraffin			■	
ELISA			■	
Immunoprecipitation			■	
Western Blotting			■	

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 - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide
Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1 mg/ml
Immunogen	Recombinant soluble mouse CD48.

**External Database
Links**

UniProt:

[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 10⁶ cells in 100ul.

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

Store at +4°C or at -20°C if preferred.

This product should be stored undiluted.

Storage in frost-free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Shelf Life

18 months from date of despatch.

**Health And Safety
Information**

Material Safety Datasheet documentation #10040 available at:
10040: <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Rat IgG (STAR16...)	DyLight®800
Goat Anti Rat IgG (STAR73...)	RPE
Rabbit Anti Rat IgG (STAR21...)	HRP

Rabbit Anti Rat IgG (STAR17...)	FITC
Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71...)	DyLight®549 , DyLight®649 , DyLight®800
Goat Anti Rat IgG (STAR131...)	Alk. Phos. , Biotin
Goat Anti Rat IgG (STAR69...)	FITC
Goat Anti Rat IgG (STAR72...)	HRP

Recommended Negative Controls

[RAT IgG2a NEGATIVE CONTROL \(MCA1212\)](#)

North & South America	Tel: +1 800 265 7376 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	Europe	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com
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