

Datasheet: MCA1959EL

Description:	MOUSE ANTI RAT CD200 RECEPTOR 1:Low Endotoxin
Specificity:	CD200 RECEPTOR 1
Other names:	OX2 RECEPTOR 1
Format:	Low Endotoxin
Product Type:	Monoclonal Antibody
Clone:	OX-102
Isotype:	IgG1
Quantity:	0.5 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	▪			1/10 - 1/200
Immunohistology - Paraffin			▪	
ELISA			▪	
Immunoprecipitation	▪			
Western Blotting	▪			
Functional Assays	▪			

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

Target Species	Rat
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	None present
Carrier Free	Yes
Endotoxin Level	<0.01EU/ug
Approx. Protein Concentrations	IgG concentration 1.0mg/ml

Immunogen Membrane fraction of thioglycollate-elicited rat peripheral cells.

External Database Links

UniProt:

[Q9ES58](#) [Related reagents](#)

Entrez Gene:

[64357](#) Cd200r1 [Related reagents](#)

Synonyms Mox2r, Ox2r

Fusion Partners Spleen cells from immunised Balb/c mice were fused with cells of the mouse NS1 myeloma cell line.

Specificity **Mouse anti Rat CD200 Receptor 1 antibody, clone OX-102** recognizes the rat OX2 (CD200) receptor 1. This antigen is a heavily glycosylated ~60-100 kDa cell surface molecule expressed by cells of the myeloid lineage but not by T or B lymphocytes.

Mouse anti Rat CD200 Receptor 1 antibody, clone OX-102 has been shown to block the interaction of OX2 receptor 1 with CD200 ([Bushell et al. 2008](#)).

Flow Cytometry Use 10ul of the suggested working dilution to label 10⁶ cells in 100ul.

References

1. Wright, G.J. *et al.* (2000) Lymphoid/neuronal cell surface OX2 glycoprotein recognizes a novel receptor on macrophages implicated in the control of their function. [Immunity. 13 \(2\): 233-42.](#)
 2. Nathan, C. & Muller, W.A. (2001) Putting the brakes on innate immunity: a regulatory role for CD200? [Nat Immunol. 2 \(1\): 17-9.](#)
 3. Dick, A.D. *et al.* (2001) Distribution of OX2 antigen and OX2 receptor within retina. [Invest Ophthalmol Vis Sci. 42 \(1\): 170-6.](#)
 4. Banerjee, D. & Dick, A.D. (2004) Blocking CD200-CD200 receptor axis augments NOS-2 expression and aggravates experimental autoimmune uveoretinitis in Lewis rats. [Ocul Immunol Inflamm. 12 \(2\): 115-25.](#)
 5. Meuth, S.G. *et al.* (2008) CNS inflammation and neuronal degeneration is aggravated by impaired CD200-CD200R-mediated macrophage silencing. [J Neuroimmunol. 194 \(1-2\): 62-9.](#)
 6. Matsumoto, S. *et al.* (2015) CD200+ and CD200- macrophages accumulated in ischemic lesions of rat brain: the two populations cannot be classified as either M1 or M2 macrophages. [J Neuroimmunol. 282: 7-20.](#)
 7. Lin, S.S. *et al.* (2012) Immune Characterization of Wild-Caught *Rattus norvegicus* Suggests Diversity of Immune Activity in Biome-Normal Environments [Journal of Evolutionary Medicine. 1: 1-16.](#)
 8. Nicholls, S.M. *et al.* (2015) Local targeting of the CD200-CD200R axis does not promote corneal graft survival. [Exp Eye Res. 130: 1-8.](#)
 9. Xie, X. *et al.* (2017) Monocytes, microglia and CD200-CD200R1 signaling are essential in the transmission of inflammation from the periphery to the central nervous system. [J Neurochem. Feb 6. \[Epub ahead of print\]](#)
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Storage Store at -20°C only.

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 #10162 available at: 10162: https://www.bio-rad-antibodies.com/uploads/MSDS/10162.pdf
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos. , HRP
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight@488 , DyLight@549 , DyLight@649 , DyLight@680 , DyLight@800 , FITC , HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Rabbit Anti Mouse IgG (STAR8...)	DyLight@800
Goat Anti Mouse IgG (STAR70...)	FITC
Rabbit Anti Mouse IgG (STAR13...)	HRP
Human Anti Mouse IgG1 (HCA036...)	HRP

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:Low Endotoxin \(MCA1209EL\)](#)

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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