

Datasheet: MCA1958T

Description:	RAT ANTI MOUSE CD200
Specificity:	CD200
Other names:	OX2
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	OX-90
Isotype:	IgG2a
Quantity:	25 µg

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	▪			1/50 - 1/200
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. 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 1.0mg/ml
Immunogen	Mouse CD200-rat CD4 fusion protein.

**External Database
Links**

UniProt:

[O54901](#) [Related reagents](#)

Entrez Gene:

[17470](#) Cd200 [Related reagents](#)

Synonyms

Mox2

Fusion Partners

Spleen cells from immunised rats were fused with cells of the rat Y3 myeloma cell line

Specificity

Rat anti Mouse CD200 antibody, clone OX-90 recognizes the mouse CD200 cell surface antigen, also known as OX2.

CD200 is expressed by splenic B lymphocytes, follicular dendritic cells, splenic endothelium and by neurons.

Studies have suggested that the CD200 - CD200 ligand system is of importance in the control of macrophage and granulocyte activation.

Flow Cytometry

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

**Histology Positive
Control Tissue**

Mouse spleen

References

1. Hoek, R.M. *et al.* (2000) Down-regulation of the macrophage lineage through interaction with OX2 (CD200). [Science. 290 \(5497\): 1768-71.](#)
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. Broderick, C. *et al.* (2002) Constitutive retinal CD200 expression regulates resident microglia and activation state of inflammatory cells during experimental autoimmune uveoretinitis. [Am J Pathol. 161 \(5\): 1669-77.](#)
4. Seeds, R.E. *et al.* (2011) The role of myeloid receptors on murine plasmacytoid dendritic cells in induction of type I interferon. [Int Immunopharmacol. 11 \(7\): 794-801.](#)
5. Burger, P.E. *et al.* (2009) High aldehyde dehydrogenase activity: a novel functional marker of murine prostate stem/progenitor cells. [Stem Cells. 27: 2220-8.](#)
6. Garza, L.A. *et al.* (2011) Bald scalp in men with androgenetic alopecia retains hair follicle stem cells but lacks CD200-rich and CD34-positive hair follicle progenitor cells. [J Clin Invest. 121: 613-22.](#)
7. Ko, Y.C. *et al.* (2009) Endothelial CD200 is heterogeneously distributed, regulated and involved in immune cell-endothelium interactions. [J Anat. 214: 183-95.](#)
8. Koning, N. *et al.* (2009) Distribution of the immune inhibitory molecules CD200 and CD200R in the normal central nervous system and multiple sclerosis lesions suggests neuron-glia and glia-glia interactions. [J Neuropathol Exp Neurol. 68: 159-67.](#)
9. Krejsek, J. *et al.* (2010) Expression of CD200/CD200R regulatory molecules on granulocytes and monocytes is modulated by cardiac surgical operation. [Perfusion. 25: 389-97.](#)
10. Rijkers, E.S. (2007) Ligation of CD200R by CD200 is not required for normal murine myelopoiesis. [Eur J Haematol. 79: 410-6.](#)
11. Rijkers, E.S. *et al.* (2008) The inhibitory CD200R is differentially expressed on human and mouse T and B lymphocytes. [Mol Immunol. 45: 1126-35.](#)
12. Liu, J.Q. *et al.* (2016) A Critical Role for CD200R Signaling in Limiting the Growth and Metastasis of CD200+ Melanoma. [J Immunol. Jul 6. pii: 1600052. \[Epub ahead of print\]](#)
13. Montiel, M. *et al.* (2016) Melatonin decreases brain apoptosis, oxidative stress, and CD200

expression and increased survival rate in mice infected by Venezuelan equine encephalitis virus.
[Antivir Chem Chemother. Aug 8. pii: 2040206616660851. \[Epub ahead of print\]](#)

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®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 \(MCA1212\)](#)

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