

Datasheet: MCA2282A488

Description:	MOUSE ANTI HUMAN CD200R:Alexa Fluor® 488
Specificity:	CD200R
Other names:	OX2R
Format:	ALEXA FLUOR® 488
Product Type:	Monoclonal Antibody
Clone:	OX108
Isotype:	IgG1
Quantity:	100 TESTS/1ml

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	▪			Neat

Where this product 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 product for use in their own system using appropriate negative/positive controls.

Target Species	Human		
Product Form	Purified IgG conjugated to Alexa Fluor® 488 - liquid		
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	Alexa Fluor®488	495	519
Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant		
Buffer Solution	Phosphate buffered saline		
Preservative	0.09% sodium azide (NaN ₃)		
Stabilisers	1% bovine serum albumin		
Approx. Protein Concentrations	IgG concentration 0.05 mg/ml		

Immunogen Fusion protein hCD200RCD4d3+4.

External Database

Links

UniProt:

[Q8TD46](#) [Related reagents](#)

Entrez Gene:

[131450](#) CD200R1 [Related reagents](#)

Synonyms

CD200R, CRTR2, MOX2R, OX2R

RRID

AB_566614

Specificity

Mouse anti Human CD200R antibody, clone OX108 recognizes human CD200R, a cell surface glycoprotein (also known as OX2R). In humans CD200R is expressed primarily by peripheral blood monocytes and neutrophils but also by other leucocytes including T-lymphocytes and mast cells, CD200-CD200R interaction may be involved in the control of myeloid cellular function ([Wright *et al.* 2003](#)).

Levels of expression on resting peripheral blood cells are relatively low.

Flow Cytometry

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

References

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2. 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.](#)
3. Melief, J. *et al.* (2012) Phenotyping primary human microglia: tight regulation of LPS responsiveness. [Glia. 60 \(10\): 1506-17.](#)
4. Ambarus CA *et al.* (2012) Soluble immune complexes shift the TLR-induced cytokine production of distinct polarized human macrophage subsets towards IL-10. [PLoS One. 7 \(4\): e35994.](#)
5. Ambarus, C.A. *et al.* (2012) Intimal lining layer macrophages but not synovial sublining macrophages display an IL-10 polarized-like phenotype in chronic synovitis. [Arthritis Res Ther. 14 \(2\): R74.](#)
6. Vicetti, R.M. *et al.* (2013) Human female genital tract infection by the obligate intracellular bacterium *Chlamydia trachomatis* elicits robust Type 2 immunity. [PLoS One. 8 \(3\): e58565.](#)
7. Melief, J. *et al.* (2013) Microglia in normal appearing white matter of multiple sclerosis are alerted but immunosuppressed. [Glia. 61 \(11\): 1848-61.](#)
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9. Memarian, A. *et al.* (2013) Upregulation of CD200 is associated with Foxp3+ regulatory T cell expansion and disease progression in acute myeloid leukemia. [Tumour Biol. 34 \(1\): 531-42.](#)

10. van de Garde, M.D. *et al.* (2014) Chronic exposure to glucocorticoids shapes gene expression and modulates innate and adaptive activation pathways in macrophages with distinct changes in leukocyte attraction. [J Immunol. 192 \(3\): 1196-208.](#)
11. Sousa, S. *et al.* (2015) Human breast cancer cells educate macrophages toward the M2 activation status. [Breast Cancer Res. 17 \(1\): 101.](#)
12. Holmannova, D. *et al.* (2015) Inhibitory CD200R and proapoptotic CD95/CD95L molecules on innate immunity cells are modulated by cardiac surgery. [Perfusion. 30 \(7\): 543-55.](#)
13. Wiedemann, G.M. *et al.* (2016) A novel TLR7 agonist reverses NK cell anergy and cures RMA-S lymphoma-bearing mice. [Oncoimmunology. 5 \(7\): e1189051.](#)
14. Björnfort Holmström, S. *et al.* (2017) Gingival Tissue Inflammation Promotes Increased Matrix Metalloproteinase-12 Production by CD200R^{low} Monocyte-Derived Cells in Periodontitis. [J Immunol. 199 \(12\): 4023-35.](#)
15. Pascoal, M.R. *et al.* (2022) CD200R1L is a functional evolutionary conserved activating receptor in human neutrophils. [J Leukoc Biol. 111 \(2\): 367-77.](#)
16. Sun, H. *et al.* (2020) The CD200/CD200R signaling pathway contributes to spontaneous functional recovery by enhancing synaptic plasticity after stroke. [J Neuroinflammation. 17 \(1\): 171.](#)
17. van den Bosch, A.M.R. *et al.* (2024) Cortical CD200-CD200R and CD47-SIRPα expression is associated with multiple sclerosis pathology. [Brain Commun. 6 \(4\): fcae264.](#)
18. Fraser, S.D. *et al.* (2021) Distinct immune regulatory receptor profiles linked to altered monocyte subsets in sarcoidosis. [ERJ Open Res.7 \(1\): 00804-2020.](#)

Storage This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended. This product is photosensitive and should be protected from light.

Guarantee 12 months from date of despatch

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Health And Safety Information Material Safety Datasheet documentation #10041 available at: <https://www.bio-rad-antibodies.com/SDS/MCA2282A488>
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Related Products

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:Alexa Fluor® 488 \(MCA928A488\)](#)

Recommended Useful Reagents

[HUMAN SEROBLOCK \(BUF070A\)](#)

[HUMAN SEROBLOCK \(BUF070B\)](#)

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