

Datasheet: MCA2282A647T

BATCH NUMBER 150241

Description:	MOUSE ANTI HUMAN CD200R:Alexa Fluor® 647
Specificity:	CD200R
Other names:	OX2R
Format:	ALEXA FLUOR® 647
Product Type:	Monoclonal Antibody
Clone:	OX108
Isotype:	IgG1
Quantity:	25 TESTS/0.25ml

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 - 1/5

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	Human
Product Form	Purified IgG conjugated to Alexa Fluor® 647 - liquid

Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	Alexa Fluor®647	650	665

Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
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Buffer Solution	Phosphate buffered saline
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Preservative	0.09% Sodium Azide
Stabilisers	1% Bovine Serum Albumin

Approx. Protein	IgG concentration 0.05 mg/ml
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Concentrations

Immunogen Fusion protein hCD200RCD4d3+4.

External Database Links

UniProt:

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

Entrez Gene:

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

Synonyms CD200R, CRTR2, MOX2R, OX2R

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 10ul of the suggested working dilution to label 10^6 cells in 100ul

References

1. Wright, G.J. *et al.* (2003) Characterization of the CD200 receptor family in mice and humans and their interactions with CD200. [J Immunol. 171 \(6\): 3034-46.](#)
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.* (2013) Microglia in normal appearing white matter of multiple sclerosis are alerted but immunosuppressed. [Glia. 61 \(11\): 1848-61.](#)
4. 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.](#)
5. 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.](#)
6. 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.](#)
7. 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.](#)
8. Sousa, S. *et al.* (2015) Human breast cancer cells educate macrophages toward the M2 activation status. [Breast Cancer Res. 17 \(1\): 101.](#)
9. Vicetti Miguel, R.D. *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.](#)
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. Melief, J. *et al.* (2012) Phenotyping primary human microglia: tight regulation of LPS responsiveness. [Glia. 60 \(10\): 1506-17.](#)

12. Georgoudaki, A.M. *et al.* (2016) Reprogramming Tumor-Associated Macrophages by Antibody Targeting Inhibits Cancer Progression and Metastasis. [Cell Rep. 15 \(9\): 2000-11.](#)

13. 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.](#)

14. 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.](#)

15. 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.](#)

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. This product is photosensitive and should be protected from light.

Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Guarantee

12 months from date of despatch

Acknowledgements

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Health And Safety Information

Material Safety Datasheet documentation #10041 available at: <https://www.bio-rad-antibodies.com/SDS/MCA2282A647T>
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Regulatory

For research purposes only

Related Products**Recommended Negative Controls**

[MOUSE IgG1 NEGATIVE CONTROL:Alexa Fluor® 647 \(MCA928A647\)](#)

Recommended Useful Reagents

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

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

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