Datasheet: MCA1960A488

Description:	MOUSE ANTI HUMAN CD200:Alexa Fluor® 488
Specificity:	CD200
Other names:	OX2
Format:	ALEXA FLUOR® 488
Product Type:	Monoclonal Antibody
Clone:	OX-104
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 Stabilisers

0.09% sodium azide (NaN_3)
1% bovine serum albumin

Approx. Protein Concentrations

IgG concentration 0.05 mg/ml

External Database Links	**UniProt:** P41217 Related reagents **Entrez Gene:** 4345 CD200 Related reagents
Synonyms	MOX1, MOX2
Specificity	**Mouse anti Human CD200 antibody, clone OX-104** recognizes the human CD200 cell surface antigen, also known as OX2. CD200 is expressed by a subset of B lymphocytes, some endothelial cells and by neurons. The CD200-CD200 ligand system is of importance in the control of macrophage and granulocyte activation.
Flow Cytometry	Use 10µl of the suggested working dilution to label 10^6 cells in 100µl

References

1. Wright, G.J. *et al.* (2001) The unusual distribution of the neuronal/lymphoid cell surface CD200 (OX2) glycoprotein is conserved in humans. Immunology 102 (2): 173-9.
2. Raftery, M.J. *et al.* (2004) Shaping phenotype, function, and survival of dendritic cells by cytomegalovirus-encoded IL-10. J Immunol. 173: 3383-91.
3. Ohyama, M. *et al.* (2006) Characterization and isolation of stem cell-enriched human hair follicle bulge cells. J Clin Invest. 116: 249-60.
4. Koning, N. *et al.* (2007) Downregulation of macrophage inhibitory molecules in multiple sclerosis lesions. Ann Neurol. 62: 504-14.
5. Kloepper, J.E. *et al.* (2008) Immunophenotyping of the human bulge region: the quest to define useful *in situ* markers for human epithelial hair follicle stem cells and their niche. Exp Dermatol. 17 (7): 592-609.
6. Kloepper, J.E. *et al.* (2008) Immunophenotyping of the human bulge region: the quest to define useful *in situ* markers for human epithelial hair follicle stem cells and their niche. Exp Dermatol. 17: 592-609.
7. Meuth, S.G. *et al.* (2008) CNS inflammation and neuronal degeneration is aggravated by impaired CD200-CD200R-mediated macrophage silencing. J Neuroimmunol. 194: 62-9.
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. Ko, Y.C. *et al.* (2009) Endothelial CD200 is heterogeneously distributed, regulated and involved in immune cell-endothelium interactions. J Anat. 214: 183-95.
10. Yamauchi, K. and Kurosaka, A. (2010) Expression and function of glycogen synthase kinase-3 in human hair follicles. Arch Dermatol Res. 302: 263-70.
11. Patel, G.K. *et al.* (2012) Identification and characterization of tumor-initiating cells in human primary cutaneous squamous cell carcinoma. J Invest Dermatol. 132 (2): 401-9.
12. Ohyama, M. & Kobayashi, T. (2012) Isolation and characterization of stem cell-enriched human and canine hair follicle keratinocytes. Methods Mol Biol. 879: 389-401.
13. Colmont, C.S. *et al.* (2013) CD200-expressing human basal cell carcinoma cells

initiate tumor growth. Proc Natl Acad Sci U S A. 110 (4): 1434-9.
14. Darmochwal-Kolarz, D. *et al.* (2013) The expressions of co-stimulatory molecules are altered on putative antigen-presenting cells in cord blood. Am J Reprod Immunol. 69 (2): 180-7.
15. Chen, H.J. *et al.* (2015) Human placenta-derived adherent cells improve cardiac performance in mice with chronic heart failure. Stem Cells Transl Med. 4 (3): 269-75.

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
Acknowledgements	This product is provided under an intellectual property licence from Life Technologies Corporation. The transfer of this product is contingent on the buyer using the purchased product solely in research, excluding contract research or any fee for service research, and the buyer must not sell or otherwise transfer this product or its components for (a) diagnostic, therapeutic or prophylactic purposes; (b) testing, analysis or screening services, or information in return for compensation on a per-test basis; (c) manufacturing or quality assurance or quality control, or (d) resale, whether or not resold for use in research. For information on purchasing a license to this product for purposes other than as described above, contact Life Technologies Corporation, 5791 Van Allen Way, Carlsbad CA 92008 USA or outlicensing@thermofisher.com
Health And Safety Information	Material Safety Datasheet documentation #10041 available at: https://www.bio-rad-antibodies.com/SDS/MCA1960A488 10041
Regulatory	For research purposes only

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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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

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets
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