

## Datasheet: MCA1960FT

**BATCH NUMBER 0614**

<b>Description:</b>	MOUSE ANTI HUMAN CD200:FITC
<b>Specificity:</b>	CD200
<b>Other names:</b>	OX2
<b>Format:</b>	FITC
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	OX-104
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	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](http://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.

<b>Target Species</b>	Human		
<b>Product Form</b>	Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid		
<b>Max Ex/Em</b>	<b>Fluorophore</b>	<b>Excitation Max (nm)</b>	<b>Emission Max (nm)</b>
	FITC	490	525
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant		
<b>Buffer Solution</b>	Phosphate buffered saline		
<b>Preservative</b>	0.09% Sodium Azide		
<b>Stabilisers</b>	1% Bovine Serum Albumin		
<b>Approx. Protein</b>	IgG concentration 0.1mg/ml		

## Concentrations

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### External Database

#### Links

#### UniProt:

[P41217](#)    [Related reagents](#)

#### Entrez Gene:

[4345](#)    CD200    [Related reagents](#)

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#### Synonyms

MOX1, MOX2

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#### RRID

AB\_2074068

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

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#### Flow Cytometry

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

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#### 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. Ko, Y.C. *et al.* (2009) Endothelial CD200 is heterogeneously distributed, regulated and involved in immune cell-endothelium interactions. [J Anat. 214: 183-95.](#)
3. 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.](#)
4. Koning, N. *et al.* (2007) Downregulation of macrophage inhibitory molecules in multiple sclerosis lesions. [Ann Neurol. 62: 504-14.](#)
5. Raftery, M.J. *et al.* (2004) Shaping phenotype, function, and survival of dendritic cells by cytomegalovirus-encoded IL-10. [J Immunol. 173: 3383-91.](#)
6. 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.](#)
7. Yamauchi, K. and Kurosaka, A. (2010) Expression and function of glycogen synthase kinase-3 in human hair follicles. [Arch Dermatol Res. 302: 263-70.](#)
8. 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.](#)
9. Ohyama, M. *et al.* (2006) Characterization and isolation of stem cell-enriched human hair follicle bulge cells. [J Clin Invest. 116: 249-60.](#)
10. 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.](#)
11. 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.](#)

12. 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.](#)
13. Ohyama, M. & Kobayashi, T. (2012) Isolation and characterization of stem cell-enriched human and canine hair follicle keratinocytes. [Methods Mol Biol. 879: 389-401.](#)
14. 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.](#)
15. 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.](#)

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**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.

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**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/MCA1960FT10041>

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**Regulatory**

For research purposes only

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## Related Products

### Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:FITC \(MCA928F\)](#)

### Recommended Useful Reagents

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

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

**North & South** Tel: +1 800 265 7376

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

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