Technical Data Sheet Purified Mouse Anti-Human CD200

Product Information	
Material Number:	552023
Alternate Name:	OX2
Size:	0.1 mg
Concentration:	0.5 mg/ml
Clone:	MRC OX-104
Isotype:	Mouse IgG1, κ
Reactivity:	QC Testing: Human
Workshop:	VII 70655
Storage Buffer:	Aqueous buffered solution containing $\leq 0.09\%$ sodium azide.

Description

Reacts with a 40-45 kDa membrane glycoprotein also referred to as OX2. CD200 is a member of the immunoglobulin superfamily of proteins. It contains two Ig domains, a single transmembrane region and a short cytoplasmic tail. CD200 is expressed on resting and PMA-activated Tand B-cells, but not on NK cells, monocytes, granulocytes, or platelets. It has been found on a subset of CD34+ progenitor cells. Interaction of CD200 with its receptor on macrophages induces a downregulation of macrophage activity in a variety of tissues, suggesting a regulatory function.

This antibody is routinely tested by flow cytometric analysis. Other applications were tested at BD Biosciences Pharmingen during antibody development only or reported in the literature.



Profile of anti-CD200, clone MRC OX-104, staining on peripheral blood lymphocytes analyzed by flow cytometry. Second step staining with Cat. No. 555988.

Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography. Store undiluted at 4° C.

Application Notes

Ann	lication	
App	ncation	

Flow cytometry					Routinely Tested	Routinely Tested		
BD Bioscier	nces					•		
bdbiosciences.	com					AT A D D		
United States	Canada 888.259.0187	Europe 32.53.720.550	Japan 0120.8555.90	Asia Pacific 65.6861.0633	Latin America/Caribbean 55.11.5185.9995	MDU		

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Suggested Companion Products

Catalog Number	Name	Size	Clone
555746	Purified Mouse IgG1, κ Isotype Control	0.1 mg	MOPC-21
555988	FITC Goat Anti-Mouse IgG/IgM	0.5 mg	Polyclonal

Product Notices

- 1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
- 2. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.
- 3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.

References

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Hoek RM, Ruuls SR, Murphy CA, et al. Down-regulation of the macrophage lineage through interaction with OX2 (CD200). *Science*. 2000; 290(5497):1768-1771. (Biology)

Wright GJ, Jones M, Puklavec MJ, Brown MH, Barclay AN. The unusual distribution of the neuronal/lymphoid cell surface CD200 (OX2) glycoprotein is conserved in humans. *Immunology*. 2001; 102(2):173-179.(Biology)

Wright GJ, Puklavec MJ, Willis AC, et al. Lymphoid/neuronal cell surface OX2 glycoprotein recognizes a novel receptor on macrophages implicated in the control of their function. *Immunity*. 2000; 13(2):233-242.(Biology)