



Rat Anti-Mouse CD200 (OX2) Monoclonal antibody, clone OX-90 (CABT-L4527)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview

The OX-90 monoclonal antibody reacts with mouse CD200 also known as OX2. CD200 is a type 1 membrane glycoprotein belonging to the immunoglobulin superfamily. CD200 expression is limited to thymocytes, neurons, B cells, splenic follicular dendritic cells and endothelium, and subsets of T cells and dendritic cells. CD200 has been shown to co-stimulate T cell proliferation. It is thought that engagement of CD200 with its receptor, CD200R, results in inhibition and/or downregulation of myeloid cell activity. Blocking this interaction decreases the inhibitory thresholds of myeloid cells resulting in increased immune activity. The OX-90 antibody has been reported to block the binding of CD200 to CD200R in vivo.

Target	Mouse CD200 (OX2)
Immunogen	Fusion protein consisting of mouse CD200 (extracellular region) and rat CD4 (domains 3 and 4)
Isotype	IgG2a, κ
Source/Host	Rat
Species Reactivity	Mouse
Clone	OX-90
Purification	Protein G purified. Purity>95%. Determined by SDS-PAGE
Conjugate	Functional Grade
Applications	in vivo CD200 blockade, in vitro CD200 blockade, IHC-F, IF, FC
Molecular Weight	150 kDa
Format	0.2 µm filtration liquid. Purified from tissue culture supernatant in an animal free facility

Concentration	Lot specific
Size	5 mg
Buffer	PBS, pH 7.0. Contains no stabilizers or preservatives. [low endotoxin azide-free] Endotoxin level: <2EU/mg (<0.002EU/μg). Determined by LAL gel clotting assay Related dilution buffer: CABT-LB04
Preservative	None
Storage	The antibody solution should be stored undiluted at 4°C, and protected from prolonged exposure to light. Do not freeze.
Ship	Wet ice

BACKGROUND

Introduction	glycoprotein; involved in neuronal cell-to-cell interaction [RGD, Feb 2006]
Keywords	CD200;Cd200 molecule;Mox2;Cspmo2;MRCOX2;OX-2 membrane glycoprotein;Cd200 antigen;MRC OX-2 antigen;cell surface protein (thymocyte antigen identified by monoclonal antibody MRC-OX2);

GENE INFORMATION

Official Symbol	Cd200 molecule
Synonyms	CD200; Cd200 molecule; Mox2; Cspmo2; MRCOX2; OX-2 membrane glycoprotein; Cd200 antigen; MRC OX-2 antigen; cell surface protein (thymocyte antigen identified by monoclonal antibody MRC-OX2);
References	Seeds, R. E., et al. (2011). "The role of myeloid receptors on murine plasmacytoid dendritic cells in induction of type I interferon." Int Immunopharmacol 11(7): 794-801. PubMed;