

Anti-CD200R [OX-102] Bulk Size Ab00566-8.4-BT

This antibody was created using our proprietary Fc Silent™ engineered Fc domain containing key point mutations that abrogate binding to Fc gamma receptors.

This chimeric rat antibody was made using the variable domain sequences of the original Mouse IgG1 format, for improved compatibility with existing reagents, assays and techniques.

Isotype and Format: Rat IgG2b, Fc Silent™, Kappa

Clone Number: OX-102

Alternative Name(s) of Target: OX2R; CD200; OX2

UniProt Accession Number of Target Protein: Q9ES58

Published Application(s): IP, WB, Block, FC, IHC-Fr

Published Species Reactivity: Rat

Immunogen: 6 week-old male BALB/c mice immunized six times with either 0.1–0.25 mg of a crude Tween-40 membrane fraction solubilized from rat (PVG) thioglycollate-elicited peritoneal cells or unlysed whole cells.

Specificity: This antibody is specific for CD200R (OX2R), a cell-surface receptor for OX2 restricted to cells of the myeloid lineage; macrophages isolated from the peritoneal cavity, lung, spleen, and leukocyte dendritic cells are highly positive in OX102 mAb staining tests.

Application Notes: This antibody binds the rat OX2 receptor, and thus can be used to stain rat resident peritoneal cells (RPCs), as well as macrophages from the lung, spleen and brain, and leukocyte dendritic cells (Wright, 2000). In addition, this antibody can be used to block the binding of OX2-coated beads to rOX2R on rat macrophages and to human kidney endothelial cells transfected with rOX2R cDNA. This antibody can also be used to purify the rOX2R antigen by immunoprecipitation from rat splenic lysates. Finally, the use of this antibody to block the OX2-OX2R interaction in rats with experimental allergic encephalomyelitis exacerbates the disease, and indicates a role for the OX2-OX2R interaction in the regulation of macrophage/microglia activity in vivo.

Antibody First Published in: Wright et al. Lymphoid/neuronal cell surface OX2 glycoprotein recognizes a novel receptor on macrophages implicated in the control of their function. Immunity. 2000 Aug;13(2):233-42. [PMID:10981966](#)

Note on publication: Describes the original use of this antibody in the molecular characterisation of the rOX2R, in immunoprecipitation and blocking studies.

Product Form

Size: 1 mg Purified antibody in bulk size.

Purification: Protein A affinity purified

Supplied In: PBS only.

Storage Recommendation: Store at 4°C for up to 3 months. Note, this antibody is provided without added preservatives, it is therefore recommended this antibody be handled under sterile conditions. For longer storage, aliquot and store at -20°C.

Concentration: 1 mg/ml.

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.