



## Monoclonal Anti-human CD200 Antibody

### ORDERING INFORMATION

**Catalog Number:** MAB27243

**Clone:** 325531

**Lot Number:** CBGD01

**Size:** 500 µg

**Formulation:** 0.2 µm filtered solution in PBS  
with 5% trehalose

**Storage:** -20° C

**Reconstitution:** sterile PBS

**Specificity:** human CD200

**Immunogen:** NS0-derived rhCD200

**Ig class:** mouse IgG<sub>1</sub>

**Recommended Applications:**

Blocking of receptor-ligand interaction  
ELISA capture

### Background

CD200 antigen, also known as OX-2, is a type I membrane protein belonging to the Ig superfamily. It has a 202 amino acid extracellular domain and a short (19 aa) cytoplasmic tail. At least two alternate splice isoforms that differ in their cytoplasmic domains are known. CD200 is widely expressed in multiple cell types. It interacts with CD200R, another Ig superfamily inhibitory receptor primarily expressed on leukocytes of the myeloid lineage to inhibit myeloid functions. The extracellular domain of human CD200 shares 76% aa sequence identity with the corresponding regions of mouse or rat CD200.

### Preparation

This antibody was produced from a hybridoma resulting from the fusion of a mouse myeloma with B cells obtained from a mouse immunized with purified, NS0-derived, recombinant human CD200 (rhCD200; aa 31 - 232; Accession # NP\_005935). The IgG fraction of the tissue culture supernatant was purified by Protein G affinity chromatography.

### Formulation

Lyophilized from a 0.2 µm filtered solution in phosphate-buffered saline (PBS) with 5% trehalose.

### Reconstitution

Reconstitute with sterile PBS. If 1.0 mL of PBS is used, the antibody concentration will be 500 µg/mL.

### Storage

Lyophilized samples are stable for twelve months from date of receipt when stored at -20° C to -70° C. Upon reconstitution, the antibody can be stored at 2° - 8° C for 1 month without detectable loss of activity. Reconstituted antibody can also be aliquotted and stored frozen at -20° C to -70° C in a manual defrost freezer for six months without detectable loss of activity. **Avoid repeated freeze-thaw cycles.**

### Specificity

This antibody detects rhCD200 in direct ELISAs.

### Applications

**Blocking of receptor-ligand interaction** - Approximately 0.2 - 1.0 µg/mL of this antibody will block 50% of the binding of 2.5 ng/mL of rhCD200 to immobilized rhCD200R (100 µL of a 2 µg/mL solution was coated in each well) in a functional ELISA assay. At 30 µg/mL, this antibody will achieve 100% blocking in the assay.

**ELISA capture** - This product can be used as a capture reagent in a human CD200 sandwich immunoassay in combination with biotinylated human CD200 detection antibody (Cat. # BAM27242) and recombinant human CD200 (Cat. # 2724-CD) as the standard. The suggested coating concentration range is 2 - 8 µg/mL and should be titrated to determine the optimal concentration. A general protocol is provided at [www.RnDSystems.com/MAPELISA](http://www.RnDSystems.com/MAPELISA). In this format, no cross-reactivity or interference was observed with rmCD200.

**Optimal dilutions should be determined by each laboratory for each application.**

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