abcam

## ab34135

# PE Anti-CD200R antibody [OX102]

Anti-CD200R antibody [OX102] conjugated to PE - suitable for flow cytometry, and reacts with rat samples. Clone [OX102] is a mouse monoclonal antibody.

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## Key facts

| | |
|---|---|
| **Isotype** | IgG1 |
| **Host species** | Mouse |
| **Conjugation** | PE |
| **Excitation/Emission** | Ex: 480;565nm, Em: 578nm |
| **Storage buffer** | Preservative: 0.09% Sodium azide Constituents: PBS, 1% BSA |
| **Form** | Liquid |
| **Clonality** | Monoclonal |
| **Immunogen** | Cell preparation containing Cd200r1 protein. The exact immunogen used to generate this antibody is proprietary information. Database link Q9ES58 |
| **Clone number** | OX102 |
| **Purification technique** | Affinity purification Protein G |
| **Purification notes** | This antibody was purified tissue culture supernatant. |

## Reactivity data

## Flow Cyt

### Tested

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|---|---|
| **Species** | Rat |

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|---|---|
| **Dilution info** | 1/100 - 1/200 |
| **Notes** | - |

## Target data

See full target information Cd200r1

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|---|---|
| **Function** | Inhibitory receptor for the CD200/OX2 cell surface glycoprotein. Limits inflammation by inhibiting the expression of pro-inflammatory molecules including TNF, interferons, and inducible nitric oxide synthase (iNOS) in response to selected stimuli (By similarity). |

## Storage

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|---|---|
| **Shipped at conditions** | Blue Ice |
| **Appropriate short-term storage conditions** | +4°C |
| **Appropriate long-term storage conditions** | +4°C |

## Notes

This antibody has been shown to block the interaction of OX2 ligand with CD200.

## Supplementary info

This supplementary information is collated from multiple sources and compiled automatically.

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|---|---|
| **Activity summary** | CD200R also known as CD200 receptor is a protein expressed mainly on myeloid cells including macrophages dendritic cells and certain T cells. The protein has a molecular mass of approximately 62 kDa. This receptor is a type I membrane glycoprotein that plays an important role in immune system regulation. It binds to its ligand CD200 protein found on various cell types such as neurons epithelial cells and some immune cells to mediate suppressive effects on the immune response. |
| **Biological function summary** | CD200R plays a significant role in controlling the immune response by acting as an inhibitory receptor. When activated it sends signals that dampen immune cell activity which can prevent overactive immune responses and promote tissue homeostasis. This receptor is not part of a large receptor complex but interacts directly with its ligand CD200 to initiate signaling cascades that modulate immune |

| | |
|---|---|
| | functions. Its primary role lies in preventing unnecessary inflammation and autoimmunity through negative regulation of macrophage activation. |
| **Pathways** | CD200R is involved in the regulatory pathways of the immune system. It participates in pathways that manage immune tolerance and its interactions impact pathways related to inflammation control and tissue repair. The CD200R signaling cascades intersect with pathways involving other immune-modulatory proteins such as CD200R1 and CD200R3 which contribute to cellular communication in the immune environment. These pathways play critical roles in downregulating inflammatory responses and maintaining immune balance. |
| **Associated diseases and disorders** | CD200R holds relevance for conditions involving immune dysregulation. It is connected to autoimmune disorders and atopic dermatitis. For example in atopic dermatitis altered expression or function of CD200R may lead to improper immune responses contributing to inflammation. Furthermore CD200R agonists which are molecules that mimic the function of CD200 are an area of interest for developing therapeutic strategies to modulate immune responses. Related proteins such as CD200 and its other receptor variants play active roles in these disorders highlighting the importance of their balanced function to maintain immune homeostasis. |

## Product promise

**Tested**

We have tested this species and application combination and it works. It is covered by our product promise.

**Expected**

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

**Predicted**

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

**Not recommended**

We do not recommend this combination. It is not covered by our product promise.

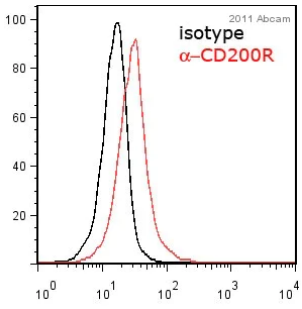
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## 1 product image




This image is courtesy of an Anonymous customer review.

### Flow Cytometry - PE Anti-CD200R antibody [OX102] (ab34135)

CD200R Flow Cytometry staining using mouse Anti-CD200R antibody

Overlay histogram showing Rat blood cells stained with ab34135 (red line). The sample was prepared by lysing Red Blood cells and cells were fixed with formaldehyde. The cells were then incubated with the antibody for 1 hour diluted 1/100 in PBS/1% BSA/0.01% Azide. The cell population was gated on monocytes.

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