

Datasheet for ABIN1690744
anti-CD200 antibody (PE)[Go to Product page](#)

4 Images

7 Publications

Overview

Quantity:	100 tests
Target:	CD200
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD200 antibody is conjugated to PE
Application:	Flow Cytometry (FACS)

Product Details

Immunogen:	recombinant human CD200
Clone:	OX-104
Isotype:	IgG1 kappa
Specificity:	The mouse monoclonal antibody OX-104 recognizes an extracellular epitope of CD200, a type-1 glycoprotein of the immunoglobulin superfamily, which is expressed in neurons, B and T cell subsets, keratinocytes, follicular dendritic cells, and ovarian cells.
Cross-Reactivity (Details):	Human
Purification:	Purified antibody is conjugated with R-phycoerythrin (PE) under optimum conditions. Unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.

Target Details

Target:	CD200
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Target Details

Alternative Name:	CD200 (CD200 Products)
Background:	CD200 Molecule,CD200 (also known as OX2 or MRC) is a type-1 membrane glycoprotein, which contains two extracellular immunoglobulin domains, transmembrane domain and cytoplasmic domain. It is expressed by neuronal cells, B and T cell subsets, follicular dendritic cells, keratinocytes, and ovarian cells. The interaction between CD200 and its receptor CD200R results in macrophage activation (IL-6 production), inhibition of mast cell degranulation along with reduced TNF-alpha and IL-13 secretion and overall attenuation of the activation status of lymphocytes. It seems CD200 is also involved in maternal tolerance and its decreased expression in hair follicle correlates with follicular miniaturization.,MRC, MOX, OX-2

Gene ID: 4345

UniProt: [P41217](#)

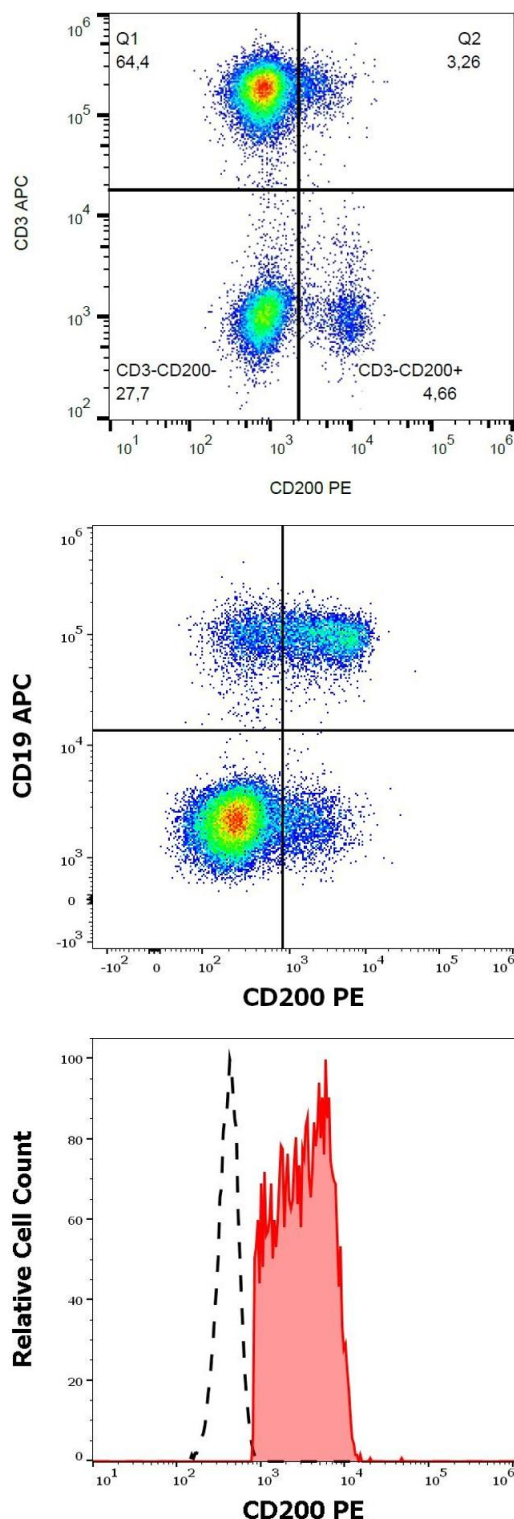
Application Details

Application Notes:	Flow cytometry: The reagent is designed for analysis of human blood cells using 10 µL reagent / 100 µL of whole blood or 10 ⁶ cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests.
Comment:	The purified antibody is conjugated with R-Phycoerythrin (PE) under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is necessary.
Restrictions:	For Research Use only

Handling

Reconstitution:	No reconstitution is necessary.
Buffer:	Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Do not freeze. Avoid prolonged exposure to light.
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.

- Product cited in: Colmont, Benketah, Reed, Hawk, Telford, Ohyama, Udey, Yee, Vogel, Patel: "CD200-expressing human basal cell carcinoma cells initiate tumor growth." in: **Proceedings of the National Academy of Sciences of the United States of America**, Vol. 110, Issue 4, pp. 1434-9, (2013) ([PubMed](#)).
- Li, Zhao, Tong, Qian, Ren, Zhang, Ding, Chen, Wang, Zhang, Zeng, Zhang, Tang, Zhang, Ba, He, Cao, Lipsky: "Aberrant CD200/CD200R1 expression and function in systemic lupus erythematosus contributes to abnormal T-cell responsiveness and dendritic cell activity." in: **Arthritis research & therapy**, Vol. 14, Issue 3, pp. R123, (2012) ([PubMed](#)).
- Garza, Yang, Zhao, Blatt, Lee, He, Stanton, Carrasco, Spiegel, Tobias, Cotsarelis: "Bald scalp in men with androgenetic alopecia retains hair follicle stem cells but lacks CD200-rich and CD34-positive hair follicle progenitor cells." in: **The Journal of clinical investigation**, Vol. 121, Issue 2, pp. 613-22, (2011) ([PubMed](#)).
- Meuth, Simon, Grimm, Melzer, Herrmann, Spitzer, Landgraf, Wiendl: "CNS inflammation and neuronal degeneration is aggravated by impaired CD200-CD200R-mediated macrophage silencing." in: **Journal of neuroimmunology**, Vol. 194, Issue 1-2, pp. 62-9, (2008) ([PubMed](#)).
- Sopp, Werling, Baldwin: "Cross-reactivity of mAbs to human CD antigens with cells from cattle." in: **Veterinary immunology and immunopathology**, Vol. 119, Issue 1-2, pp. 106-14, (2007) ([PubMed](#)).
- There are more publications referencing this product on: [Product page](#)



Flow Cytometry

Image 1. Flow cytometry multicolor surface staining of human lymphocytes stained using anti-human CD200 (OX-104) PE antibody (10 µL reagent / 100 µL of peripheral whole blood) and anti-human CD3 (UCHT1) APC antibody (10 µL reagent / 100 µL of peripheral whole blood).

Flow Cytometry

Image 2. Flow cytometry multicolor surface staining of human lymphocytes stained using anti-human CD200 (OX-104) PE antibody (10 µL reagent / 100 µL of peripheral whole blood) and anti-human CD19 (LT19) APC antibody (10 µL reagent / 100 µL of peripheral whole blood).

Flow Cytometry

Image 3. Separation of human CD200 positive B cells (red-filled) from neutrophil granulocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD200 (OX-104) PE antibody (10 µL reagent / 100 µL of peripheral whole blood).

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN1690744.