abcam

ab272336

PE/Cy7® Anti-CD200 / OX2 antibody [OX-104]

Anti-CD200 / OX2 antibody [OX-104] conjugated to PE/Cy7® - suitable for flow cytometry, and reacts with human samples. Clone [OX-104] is a mouse monoclonal antibody cited in 23 publications.

Design your panel with our interactive flow cytometry panel builder. Click here.

Key facts

Isotype	IgG1
Host species	Mouse
Conjugation	PE/Cy7®
Excitation/Emission	Ex: 565nm, Em: 778nm
Storage buffer	pH: 7.4 Preservative: 0.0975% Sodium azide Constituents: PBS
Form	Liquid
Clonality	Monoclonal
Immunogen	Recombinant Fragment Protein within Human CD200. The exact immunogen used to generate this antibody is proprietary information. Database link P41217
Clone number	OX-104
Purification technique	Size-exclusion chromatography
Specificity	The mouse monoclonal antibody OX-104 recognizes an extracellular epitope of CD200.
Epitope	extracellular
Light chain type	kappa
Purification notes	Purified from TCS.

Reactivity data

Flow Cyt

Tested

Species	Human
Dilution info	4 µL for 10^6 Cells
Notes	In a volume of 100 µL cell suspension.

Target data

See full target information CD200

Function	Costimulates T-cell proliferation. May regulate myeloid cell activity in a variety of tissues.

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	+4°C
Storage information	Store in the dark

Notes

This product or portions thereof is manufactured under license from Carnegie Mellon University under U.S. Patent Number 5, 268, 486 and related patents. Cy® and CyDye® are trademarks of Cytiva.

Supplementary info

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

Activity summary	CD200 also known as OX2 is a cell surface glycoprotein with a molecular mass of approximately 43 kDa. It plays a mechanical role in immune response regulation. CD200 expression occurs on several cell types such as thymocytes neurons vascular endothelium and splenocytes including cynomolgus monkey splenocytes. This protein generally modulates interactions between cells sending inhibitory signals through its receptor CD200R found on myeloid cells and certain lymphoid cells.

Biological function summary	CD200 regulates the immune system by inhibiting inflammatory responses and maintaining immune homeostasis. It does not act as part of a significant multi-protein complex but directly interacts with CD200R. This interaction promotes an anti-inflammatory state and is important in preventing autoimmune diseases and excessive tissue damage. The expression of CD200 is also an indicator of immune tolerance in various tissues.
Pathways	CD200 is involved in immune regulatory pathways. It plays a pivotal role in the suppression of immune responses through the CD200-CD200R signaling pathway. This pathway is vital for dampening inflammatory processes related to autoimmune reactions and is consequently linked to the maintenance of tissue homeostasis. Proteins related to CD200 through these pathways include CD200R and other molecules involved in immune checkpoint pathways.
Associated diseases and disorders	CD200 expression correlates with several conditions including cancer and autoimmune diseases. The overexpression of CD200 in certain tumors promotes immune evasion thereby favoring tumor progression. Conversely reduced CD200 levels are associated with autoimmune disorders where a hyperactive immune system attacks self-tissues. Through these disease contexts CD200 operates alongside proteins such as CD200R and OX90 impacting disease progression and immune system modulation.

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

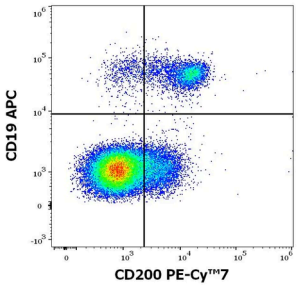
We do not recommend this combination. It is not covered by our product promise.

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

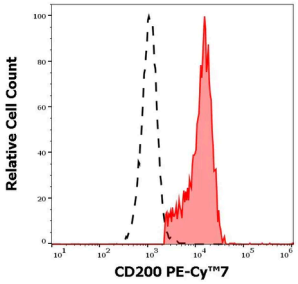
3 product images



Flow Cytometry - PE/Cy7® Anti-CD200 / OX2 antibody [OX-104] (ab272336)

CD200 / OX2 Flow Cytometry staining using mouse Anti-CD200 / OX2 antibody

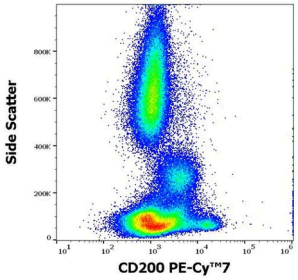
Flow cytometric analysis of human peripheral whole blood labeling CD200 with ab272336 at 4 µL / 10^6 cells (in 100 µL cell suspension) and an APC-labeled anti-CD19 antibody.



Flow Cytometry - PE/Cy7® Anti-CD200 / OX2 antibody [OX-104] (ab272336)

CD200 / OX2 Flow Cytometry staining using mouse Anti-CD200 / OX2 antibody

Flow cytometric analysis showing separation of CD200 positive B cells (red) from neutrophils (dashed) using ab272336 at 4 µL / 10^6 cells to label CD200 in human peripheral whole blood (100 µL).



Flow Cytometry - PE/Cy7® Anti-CD200 / OX2 antibody [OX-104] (ab272336)

CD200 / OX2 Flow Cytometry staining using mouse Anti-CD200 / OX2 antibody

Flow cytometric analysis of human peripheral whole blood labeling CD200 with ab272336 at 4 µL / 10^6 cells (in 100 µL cell suspension).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.