abcam

ab33737

FITC Anti-CD200 / OX2 antibody [MRC OX90]

Anti-CD200 / OX2 antibody [MRC OX90] conjugated to FITC - suitable for flow cytometry, and reacts with mouse samples. Clone [MRC OX90] is a rat monoclonal antibody.

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Key facts

Isotype	IgG2a
Host species	Rat
Conjugation	FITC
Excitation/Emission	Ex: 495nm, Em: 519nm
Storage buffer	Preservative: 0.09% Sodium azide Constituents: PBS, 1% BSA
Form	Liquid
Clonality	Monoclonal
Immunogen	Recombinant Protein within Mouse Cd200. The exact immunogen used to generate this antibody is proprietary information. Database link O54901
Clone number	MRC OX90
Purification technique	Affinity purification Protein G
Concentration	0.1 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

Flow Cyt

Expected

Species	Mouse
Dilution info	1/1 - 1/5
Notes	Use 10µl of the suggested working dilution to label 10^6 cells in 100µl.

Target data

See full target information Cd200

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

Storage

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

Notes

Spleen cells from immunised rats were fused with cells of the rat Y3 myeloma cell line.

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.

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