

OX2 (OX104): sc-53098

BACKGROUND

OX2 (CD200, MOX2), a member of the immunoglobulin superfamily (IgSF), is a 248 residue cell surface glycoprotein that is expressed in lymphoid cells, neurons and endothelium. OX2 receptor (OX2R) is a membrane protein with up to 70% of its weight derived from N-linked glycosylation; it is primarily expressed in lymphoid and neuronal tissue. Phylogenetic analysis of OX2R with respect to other leukocyte IgSF glycoproteins suggests that OX2R and OX2 share a common ancestral protein. The cytoplasmic portion of OX2R contains NPXY motifs that are known to interact with PTB/PID binding domains. The interaction between OX2 and OX2R may contribute to pathways that suppress and limit macrophage induced inflammatory damage in tissue.

REFERENCES

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STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

CHROMOSOMAL LOCATION

Genetic locus: CD200 (human) mapping to 3q13.2.

SOURCE

OX2 (OX104) is a mouse monoclonal antibody raised against purified OX2CD4d3+4 recombinant protein of human origin.

PRODUCT

Each vial contains 200 µg IgG₁ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

OX2 (OX104) is available conjugated to either phycoerythrin (sc-53098 PE) or fluorescein (sc-53098 FITC), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM.

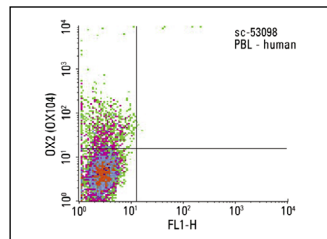
APPLICATIONS

OX2 (OX104) is recommended for detection of OX2 cell surface antigen of human origin by flow cytometry (1 µg per 1 x 10⁶ cells).

Suitable for use as control antibody for OX2 siRNA (h): sc-42954, OX2 shRNA Plasmid (h): sc-42954-SH and OX2 shRNA (h) Lentiviral Particles: sc-42954-V.

Molecular Weight of OX2: 41-47 kDa.

DATA



OX2 (OX104): sc-53098. Indirect FCM analysis of human peripheral blood leukocytes stained with OX2 (OX104), followed by PE-conjugated goat anti-mouse IgG: sc-3738. Quadrant markers were set based on the isotype control, normal mouse IgG₁: sc-3877.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.