

OX2 (3H1963): sc-71763

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 (mouse) mapping to 16 B5.

SOURCE

OX2 (3H1963) is a rat monoclonal antibody raised against CD200 of mouse origin.

PRODUCT

Each vial contains 200 µg IgG_{2a} in 1.0 ml PBS with < 0.1% sodium azide and 0.1% gelatin.

OX2 (3H1963) is available conjugated to either phycoerythrin (sc-71763 PE) or fluorescein (sc-71763 FITC), 200 µg/ml, for IF, IHC(P) and FCM.

APPLICATIONS

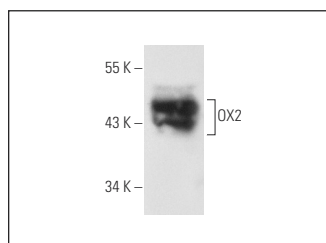
OX2 (3H1963) is recommended for detection of OX2 a cell surface antigen of mouse origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and flow cytometry (1 µg per 1 x 10⁶ cells).

Suitable for use as control antibody for OX2 siRNA (m): sc-42955, OX2 siRNA (r): sc-270249, OX2 shRNA Plasmid (m): sc-42955-SH, OX2 shRNA Plasmid (r): sc-270249-SH, OX2 shRNA (m) Lentiviral Particles: sc-42955-V and OX2 shRNA (r) Lentiviral Particles: sc-270249-V.

Molecular Weight of OX2: 41-47 kDa.

Positive Controls: mouse brain extract: sc-2253, J774.A1 cell lysate: sc-3802 or CCRF-CEM cell lysate: sc-2225.

DATA



OX2 (3H1963): sc-71763. Western blot analysis of OX2 expression in mouse brain tissue extract.

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.