

# OX2 (3H1976): sc-71759

## 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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## CHROMOSOMAL LOCATION

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

## SOURCE

OX2 (3H1976) is a mouse monoclonal antibody raised against recombinant OX2CD4d3+4 of human origin.

## PRODUCT

Each vial contains 200 µg IgG<sub>1</sub> kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

OX2 (3H1976) is available conjugated to either phycoerythrin (sc-71759 PE) or fluorescein (sc-71759 FITC), 200 µg/ml, for IF, IHC(P) and FCM.

## APPLICATIONS

OX2 (3H1976) is recommended for detection of OX2 cell surface antigen of human origin by flow cytometry (1 µg per 1 x 10<sup>6</sup> 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.

## STORAGE

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

## RESEARCH USE

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

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) for detailed protocols and support products.