**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 OXR2 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**


**CHROMOSOMAL LOCATION**

Genetic locus: Cd200 (mouse) mapping to 16 B5.

**SOURCE**

OX2 (OX2) is a mouse monoclonal antibody raised against full length OX2 of rat origin.

**PRODUCT**

Each vial contains 200 µg IgG κ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin. OX2 (OX2) is available conjugated to either phycoerythrin (sc-53099 PE) or fluorescein (sc-53099 FITC), 200 µg/ml, for IF, IHC(P) and FCM.

**APPLICATIONS**

OX2 (OX2) is recommended for detection of a monomorphic determinant of OX2 of mouse and rat origin by immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), flow cytometry (1 g per 1 x 10^6 cells) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000). Suitable for use as control antibody for OX2 siRNA (m): sc-42955, OX2 shRNA Plasmid (m): sc-42955-SH and OX2 shRNA (m) Lentiviral Particles: sc-42955-V.

Molecular Weight of OX2: 41-47 kDa.

**RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended: 1) Immunofluorescence: use m-IgGκ BP-FITC: sc-516140 or m-IgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

**DATA**


**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 website at www.scbt.com for detailed protocols and support products.