

# Ox40 (3H1849): sc-71767

## BACKGROUND

Ox40 (also designated CD134 and Ox40R), is a member of the tumor necrosis factor receptor (TNFR) family. Ox40 is involved in coordinating CD4 T cell selection, migration and cytokine differentiation in T helper (Th)1 and Th2 cells. Ox40 is also involved in the stimulation of T cells, T cell-dependent humoral response and generation of optimal CD4<sup>+</sup> T cell responses *in vivo* and *in vitro*. Ox40 is expressed on activated CD4<sup>+</sup> T lymphocytes and its ligand, Ox40L, is found preferentially on activated B cells. Engagement of Ox40 with its ligand, Ox40L, delivers a strong costimulatory signal to effector T cells. Members of the TNFR superfamily are critically involved in the regulation of infections, inflammation, autoimmune diseases and tissue homeostasis.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: *Tnfrsf4* (mouse) mapping to 4 E2.

## SOURCE

Ox40 (3H1849) is a mouse monoclonal antibody raised against PHA activated lymph node cells of rat origin.

## PRODUCT

Each vial contains 100 µg IgG<sub>2b</sub> in 1.0 ml PBS with < 0.1% sodium azide and 0.1% gelatin.

Ox40 (2Q1716) is available conjugated to either phycoerythrin (sc-71768 PE) or fluorescein (sc-71768 FITC), 200 µg/ml, for IF, IHC(P) and FCM.

## APPLICATIONS

Ox40 (3H1849) is recommended for detection of Ox40 which is present on activated T lymphocytes of mouse and rat origin by immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and flow cytometry (1 µg per 1 x 10<sup>6</sup> cells); non cross-reactive with thymocytes.

Molecular Weight of Ox40: 43 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.