

Ox40 (G-14): sc-10938

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-dependent humoral response and generation of optimal CD4⁺ T cell responses *in vivo* and *in vitro*. Ox40 is expressed on activated CD4⁺ 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 (human) mapping to 1p36.

SOURCE

Ox40 (G-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of Ox40 of human origin.

RESEARCH USE

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

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-10938 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

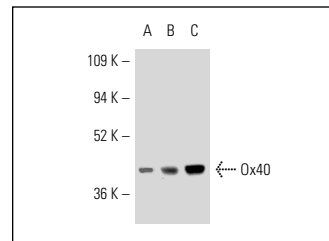
Ox40 (G-14) is recommended for detection of Ox40 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for Ox40 siRNA (h): sc-42822, Ox40 shRNA Plasmid (h): sc-42822-SH and Ox40 shRNA (h) Lentiviral Particles: sc-42822-V.

Molecular Weight of Ox40: 43 kDa.

Positive Controls: U-937 cell lysate: sc-2239, HEL 92.1.7 cell lysate: sc-2270 or Jurkat whole cell lysate: sc-2204.

DATA



Ox40 (G-14): sc-10938. Western blot analysis of Ox40 expression in HEL 92.1.7 (A), Jurkat (B) and U-937 (C) whole cell lysates.

STORAGE

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

PROTOCOLS

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



Try **Ox40 (H-10): sc-376014**, our highly recommended monoclonal alternative to Ox40 (G-14). Also, for AC, HRP, FITC, PE, Alexa Fluor® 488 and Alexa Fluor® 647 conjugates, see **Ox40 (H-10): sc-376014**.