

Ox40L (OX89): sc-53105

BACKGROUND

The Ox40 ligand, Ox40L (also designated gp34), is a type II membrane protein, due to the absence of a signal peptide. Ox40L, a member of the tumor necrosis factor (TNF) superfamily, is a costimulatory molecule involved in dendritic cell:T cell interactions, T cell homing and B cell activation. Engagement of Ox40L with its receptor, Ox40, delivers a strong costimulatory signal to effector T cells. Ox40L is found preferentially on activated B cells and its receptor, Ox40, is a member of the tumor necrosis factor receptor (TNFR) family that is expressed on activated T cells. Ox40L plays a critical role in antigen-specific T cell responses *in vivo* and in both the priming and effector phases of T cell activation when expressed on antigen-presenting cells (APCs).

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: *Tnfsf4* (mouse) mapping to 1 H2.1.

SOURCE

Ox40L (OX89) is a rat monoclonal antibody raised against Rat CD4 and mouse CD134 ligand chimaeric protein.

PRODUCT

Each vial contains 200 µg IgG₁ in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Ox40L (OX89) is available conjugated to agarose (sc-53105 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-53105 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-53105 PE), fluorescein (sc-53105 FITC), Alexa Fluor® 488 (sc-53105 AF488), Alexa Fluor® 546 (sc-53105 AF546), Alexa Fluor® 594 (sc-53105 AF594) or Alexa Fluor® 647 (sc-53105 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-53105 AF680) or Alexa Fluor® 790 (sc-53105 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

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APPLICATIONS

Ox40L (OX89) is recommended for detection of Ox40L of mouse origin by flow cytometry (1 µg per 1 x 10⁶ cells).

Suitable for use as control antibody for Ox40L siRNA (m): sc-42825, Ox40L shRNA Plasmid (m): sc-42825-SH and Ox40L shRNA (m) Lentiviral Particles: sc-42825-V.

Molecular Weight of Ox40L: 22 kDa.

SELECT PRODUCT CITATIONS

- Arduin, E., Arora, S., Bamert, P.R., Kuiper, T., Popp, S., Geisse, S., Grau, R., Calzascia, T., Zenke, G. and Kovarik, J. 2015. Highly reduced binding to high and low affinity mouse Fc γ receptors by L234A/L235A and N297A Fc mutations engineered into mouse IgG_{2a}. *Mol. Immunol.* 63: 456-463.

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 for detailed protocols and support products.