

Ox40L (RR19): sc-80271

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 (human) mapping to 1q25.1.

SOURCE

Ox40L (RR19) is a mouse monoclonal antibody raised against the extracellular domain of Ox40L of human origin.

PRODUCT

Each vial contains 100 µg IgG₁ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and protein stabilizer. Also available azide-free for neutralization, sc-80271 L, 100 µg/0.1 ml.

APPLICATIONS

Ox40L (RR19) is recommended for detection of Ox40L of human origin by immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and flow cytometry (1 µg per 1 x 10⁶ cells).

Suitable for use as control antibody for Ox40L siRNA (h): sc-42824, Ox40L shRNA Plasmid (h): sc-42824-SH and Ox40L shRNA (h) Lentiviral Particles: sc-42824-V.

Molecular Weight of Ox40L: 22 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.

SELECT PRODUCT CITATIONS

- Ilves, T. and Harvima, I.T. 2013. Ox40 ligand and Ox40 are increased in atopic dermatitis lesions but do not correlate with clinical severity. *J. Eur. Acad. Dermatol. Venereol.* 27: e197-e205.
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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.