

Ox40L (ATM-2): sc-53746

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

SOURCE

Ox40L (ATM-2) is a mouse monoclonal antibody raised against ACI-S1 T cell lymphoma cell line of rat origin.

PRODUCT

Each vial contains 100 µg IgG₁ in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

Ox40L (ATM-2) is recommended for detection of Ox40L of mouse and rat 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.

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.