

CD40L Antibody
Rabbit Polyclonal Antibody
Catalog # ABV10146**Specification**

CD40L Antibody - Product Information

Application	WB
Primary Accession	P29965
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	29274

CD40L Antibody - Additional Information**Gene ID 959**

Application & Usage	Western blot analysis (0.5-4 µg/ml). However, the optimal conditions should be determined individually. Jurkat cell lysate can be used as a positive control.
---------------------	--

Other Names

CD40LG, CD154, TRAP , gp39 , # CD40L , IMD3 , IGM , hCD40L, TNFSF5. HIGM1, CD40-L

Target/Specificity

CD40L

Antibody Form

Liquid

Appearance

Colorless liquid

Formulation

100 µg (0.5 mg/ml) affinity purified rabbit anti-CD40L polyclonal antibody in phosphate buffered saline (PBS), pH 7.2, containing 30% glycerol, 0.5% BSA, 0.01% thimerosal.

Handling

The antibody solution should be gently mixed before use.

Reconstitution & Storage

-20 °C

Background Descriptions**Precautions**

CD40L Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

CD40L Antibody - Protein Information

Name CD40LG

Synonyms CD40L, TNFSF5, TRAP

Function

Cytokine that acts as a ligand to CD40/TNFRSF5 (PubMed:1280226, PubMed:31331973). Costimulates T-cell proliferation and cytokine production (PubMed:8617933). Its cross-linking on T-cells generates a costimulatory signal which enhances the production of IL4 and IL10 in conjunction with the TCR/CD3 ligation and CD28 costimulation (PubMed:8617933). Induces the activation of NF-kappa-B (PubMed:15067037, PubMed:31331973). Induces the activation of kinases MAPK8 and PAK2 in T-cells (PubMed:15067037). Induces tyrosine phosphorylation of isoform 3 of CD28 (PubMed:15067037). Mediates B-cell proliferation in the absence of co-stimulus as well as IgE production in the presence of IL4 (By similarity). Involved in immunoglobulin class switching (By similarity).

Cellular Location

Cell membrane; Single-pass type II membrane protein. Cell surface

Tissue Location

Specifically expressed on activated CD4+ T- lymphocytes

CD40L Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

CD40L Antibody - Images

CD40L Antibody - Background

CD40, also known as bp50 or CDW40, is a type I membrane protein found on the surface of B cells and primary carcinomas. It belongs to the TNF-R family. CD40 serves as the receptor for CD40 ligand (CD40L), a cytokine expressed on the cell surface of T cells. CD40 plays a critical role in B cell proliferation, antibody class switching, modulation of apoptosis in the germinal center through interaction with T cells expressing CD40L, and activation of CD4+ T cells. Ligation of CD40 with its ligand preferentially induces stress-activated protein kinases in B lymphocytes.