

**CD40L Antibody**  
**Rabbit Polyclonal Antibody**  
**Catalog # ABV10778****Specification**

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**CD40L Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">P27548</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	29370

**CD40L Antibody - Additional Information****Gene ID** 21947

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

CD40L, CD40 Ligand, CD40Ligand, CD40-L, CD40-Ligand

**Target/Specificity**

CD40L

**Antibody Form**

Liquid

**Appearance**

Colorless liquid

**Formulation**

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

### Function

Cytokine that acts as a ligand to CD40/TNFRSF5 (By similarity). Costimulates T-cell proliferation and cytokine production (By similarity). 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 (By similarity). Induces the activation of NF-kappa-B (By similarity). Induces the activation of kinases MAPK8 and PAK2 in T-cells (By similarity). Mediates B-cell proliferation in the absence of co-stimulus as well as IgE production in the presence of IL4 (PubMed:<a href="http://www.uniprot.org/citations/1374165" target="\_blank">1374165</a>). Involved in immunoglobulin class switching (PubMed:<a href="http://www.uniprot.org/citations/1374165" target="\_blank">1374165</a>).

### Cellular Location

Cell membrane {ECO:0000250|UniProtKB:P29965}; Single-pass type II membrane protein {ECO:0000250|UniProtKB:P29965} Cell surface {ECO:0000250|UniProtKB:P29965}

### 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.