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# 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.

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## CD40L Antibody - Protein Information

**Name** CD40LG

**Synonyms** CD40L, TNFSF5, TRAP

**Function**
Cytokine that acts as a ligand to CD40/TNFRSF5 (PubMed:<a href="http://www.uniprot.org/citations/1280226" target="_blank">1280226</a>, PubMed:<a href="http://www.uniprot.org/citations/31331973" target="_blank">31331973</a>). Costimulates T-cell proliferation and cytokine production (PubMed:<a href="http://www.uniprot.org/citations/8617933" target="_blank">8617933</a>). 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:<a href="http://www.uniprot.org/citations/8617933" target="_blank">8617933</a>). Induces the activation of NF-kappa-B (PubMed:<a href="http://www.uniprot.org/citations/15067037" target="_blank">15067037</a>, PubMed:<a href="http://www.uniprot.org/citations/31331973" target="_blank">31331973</a>). Induces the activation of kinases MAPK8 and PAK2 in T-cells (PubMed:<a href="http://www.uniprot.org/citations/15067037" target="_blank">15067037</a>). Induces tyrosine phosphorylation of isoform 3 of CD28 (PubMed:<a href="http://www.uniprot.org/citations/15067037" target="_blank">15067037</a>). 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 Cytomety
- 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 thro µgh 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.