10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

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: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 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.