10320 Camino Santa Fe, Suite G
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Tel: 858.875.1900 Fax: 858.875.1999

CD40 Antibody
Rabbit Polyclonal Antibody
Catalog # ABV10052

Specification

CD40 Antibody - Product Information

Application	**WB**
Primary Accession	P25942
Reactivity	**Human, Mouse, Rat, Monkey, Pig**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**30619**

CD40 Antibody - Additional Information

Gene ID 958

Application & Usage	**Western blotting (0.5-4 µg/ml). However, the optimal conditions should be determined individually.**

Other Names
CDW40, CDw40, p50, Bp50, MGC9013, TNFRSF5

Target/Specificity
CD40

Antibody Form
Liquid

Appearance
Colorless liquid

Formulation
100 µg (0.2 mg/ml) immunoaffinity purified rabbit anti-CD40 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
CD40 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

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CD40 Antibody - Protein Information

Name CD40

Synonyms TNFRSF5

Function
Receptor for TNFSF5/CD40LG (PubMed:31331973). Transduces TRAF6- and MAP3K8-mediated signals that activate ERK in macrophages and B cells, leading to induction of immunoglobulin secretion (By similarity).

Cellular Location
[Isoform I]: Cell membrane; Single-pass type I membrane protein

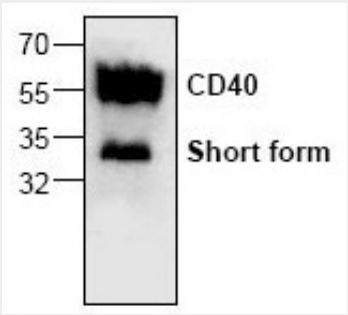
Tissue Location
B-cells and in primary carcinomas.

CD40 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

CD40 Antibody - Images



Western blot analysis of CD40 expression in rat kidney tissue lysate.

CD40 Antibody - Background

CD40 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. In non-hemopoitic cells such as epidermal basal cells, CD40 ligation serves as the signal for inhibition of cell growth and induction of differentiation. The cytoplasmic domain of CD40 interacts with TRAF6, a TNFR associated factor homolog that mediates signaling from CD40. Ligation of CD40 with its ligand preferentially induces

stress-activated protein kinases in B lymphocytes.