

**CD40 Antibody**  
**Rabbit Polyclonal Antibody**  
**Catalog # ABV10052****Specification**

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**CD40 Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">P25942</a>
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.

## CD40 Antibody - Protein Information

**Name** CD40

**Synonyms** TNFRSF5

### Function

Receptor for TNFSF5/CD40LG (PubMed:<a href="http://www.uniprot.org/citations/31331973" target="\_blank">31331973</a>). 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

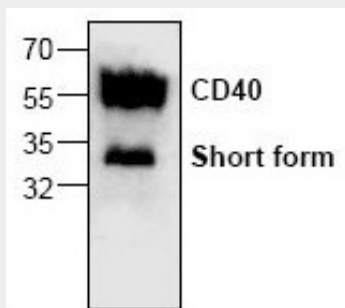
B-cells and in primary carcinomas.

## 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 Cytometry](#)
- [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 through interaction with T cells expressing CD40L, and activation of CD4<sup>+</sup> T cells. In non-hemopoietic 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.