

## CD40 Polyclonal Antibody

<b>CATALOG NO:</b>	3072-30T	30 µg (Trial size)
	3072-100	100 µg
<b>HOST:</b>	Rabbit	
<b>IMMUNOGEN:</b>	Synthetic peptide corresponding to residues surrounding amino acids 261 of human CD40 (Internal ID# BV859).	
<b>SPECIES REACTIVITY:</b>	Human, Mouse, Rat, Monkey, Pig, Horse, Dog	

### FORMULATION:

0.2 mg/ml immunofluorescence purified rabbit anti-CD40 polyclonal antibody in phosphate buffered saline (PBS), pH 7.2, containing 30% glycerol, 0.5% BSA, 0.01% thimerosal.

### STORAGE CONDITIONS:

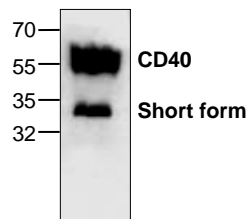
Store at -20°C. For long-term storage, aliquot and freeze at -70°C. Avoid repeated freeze/thaw cycles.

### BACKGROUND DESCRIPTION:

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 CD<sup>4+</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.

### APPLICATION AND USAGE:

The antibody can be used for Western blotting (0.5-4 µg/ml). However, the optimal conditions should be determined individually. Blocking peptide (Cat.# 3072BP-50) is available separately.



**Cat. #: 3072-100**  
Western blot analysis of CD40 expression in rat kidney tissue lysate.

**FOR RESEARCH USE ONLY! Not to be used on humans.**

### RELATED PRODUCTS:

#### Apoptosis Detection Kits & Reagents

- Annexin V Kits & Bulk Reagents
- Caspase Assay Kits & Reagents
- Mitochondrial Apoptosis Kits & Reagents
- Nuclear Apoptosis Kits & Reagents
- Apoptosis Inducers and Set
- Apoptosis siRNA Vectors

#### Cell Fractionation System

- Mitochondria/Cytosol Fractionation Kit
- Nuclear/Cytosol Fractionation Kit
- Membrane Protein Extraction Kit
- Cytosol/Particulate Rapid Separation Kit
- Mammalian Cell Extraction Kit
- FractionPREP Fractionation System

#### Cell Proliferation & Senescence

- Quick Cell Proliferation Assay Kit
- Senescence Detection Kit
- High Throughput Apoptosis/Cell Viability Assay Kits
- LDH-Cytotoxicity Assay Kit
- Bioluminescence Cytotoxicity Assay Kit
- Live/Dead Cell Staining Kit

#### Cell Damage & Repair

- HDAC Fluorometric & Colorimetric Assays & Drug Discovery Kits
- HAT Colorimetric Assay Kit & Reagents
- DNA Damage Quantification Kit
- Glutathione & Nitric Oxide Fluorometric & Colorimetric Assay Kits

#### Signal Transduction

- cAMP & cGMP Assay Kits
- Akt & JNK Activity Assay Kits
- Beta-Secretase Activity Assay Kit

#### Adipocyte & Lipid Transfer

- Recombinant Adiponectin, Survivin, & Leptin
- CETP Activity Assay & Drug Discovery Kits
- PLTP Activity Assay & Drug Discovery Kits
- Total Cholesterol Quantification Kit

#### Molecular Biology & Reporter Assays

- siRNA Vectors
- Cloning Insert Quick Screening Kit
- Mitochondrial & Genomic DNA Isolation Kits
- 5 Minutes DNA Ligation Kit
- 20 Minutes Gel Staining/Destaining Kit
- β-Galactosidase Staining Kit & Luciferase Reporter Assay Kit

#### Growth Factors and Cytokines

Monoclonal and Polyclonal Antibodies