

CD40 Polyclonal Antibody

CATALOG #: 3072-100

AMOUNT: 100 µg

LOT #:

HOST: Rabbit

IMMUNOGEN: Synthetic peptide corresponding to residues surrounding amino acids 261 of human CD40.

FORMULATION:

100 µg (0.2 mg/ml) immunoaffinity purified rabbit anti-CD40 polyclonal antibody in phosphate buffered saline (PBS), pH 7.2, containing 50% glycerol, 1% BSA, 0.02% sodium azide.

SPECIES REACTIVITY: human, mouse, rat, monkey, pig

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 CD⁴⁺ 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.

SPECIFICITY: The antibody detects a 43 kDa CD40 protein.

APPLICATION AND USAGE:

The antibody can be used for Western blotting (1-2 µg/ml). However, the optimal conditions should be determined individually.

NOTE: For Research Use Only. Not to be used in human.

RELATED PRODUCTS:

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- 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

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

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- CETP Activity Assay & Drug Discovery Kits
- PLTP Activity Assay & Drug Discovery Kits
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- 5 Minutes DNA Ligation Kit
- 20 Minutes Gel Staining/Destaining Kit
- β-Galactosidase Staining Kit & Luciferase Reporter Assay Kit

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