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Datasheet for ABIN2451933

anti-CD40 antibody (Extracellular Domain)

4 Images

3 Publications

Overview

Quantity:	100 µg
Target:	CD40
Binding Specificity:	Extracellular Domain
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD40 antibody is un-conjugated
Application:	Flow Cytometry (FACS), Immunohistochemistry (IHC), Stimulation (St)

Product Details

Immunogen:	Recombinant extracellular domain of CD40 Product, Purified from serum-free medium by salting-out and ion-exchange chromatography under mild conditions.
Clone:	5C3
Isotype:	IgG1 kappa
Purification:	Purified from serum-free medium by salting-out and ion-exchange chromatography under mild conditions.
Sterility:	Sterile filtered

Target Details

Target:	CD40
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Target Details

Alternative Name: CD40 ([CD40 Products](#))

Background: CD40 is a 45-50- kDa glycoprotein belonging to the tumor necrosis factor (TNF) receptor superfamily. CD40 is specifically expressed on the surface of B cells and specialized antigen-presenting cells such as dendritic cells and macrophages. CD40 interacts with the CD40 ligand (CD154) which is found primarily on T cells, playing a role in both humoral and cell-mediated immune responses. Activation of CD40 on B cells by CD40 ligand causes B cell proliferation, differentiation, immunoglobulin isotype switching, germinal center formation, and stimulation of the humoral memory response. CD40 has been found to mediate a broad variety of immune and inflammatory responses. Within the cell, the CD40 Molecule acts as a transmembrane signal transducer that leads to activation of intracellular kinases and transcription factors.

UniProt: [P25942](#)

Pathways: [NF-kappaB Signaling](#), [Cellular Response to Molecule of Bacterial Origin](#), [M Phase](#), [Regulation of Leukocyte Mediated Immunity](#), [Positive Regulation of Immune Effector Process](#), [Production of Molecular Mediator of Immune Response](#), [Cancer Immune Checkpoints](#)

Application Details

Application Notes:

1. Flowcytometry
2. Immunohistochemistry (acetone or zinc-fixed or frozen section, indirect immuno-staining)
3. Stimulation of proliferation of B cell and dendritic cells. Enhancement of proinflammatory cytokine production in human monocytes, such as TNF- α , IL-6 and IL-8

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1 mg/mL

Buffer: PBS, 50 % glycerol. Azide- and carrier protein-free.

Preservative: Azide free

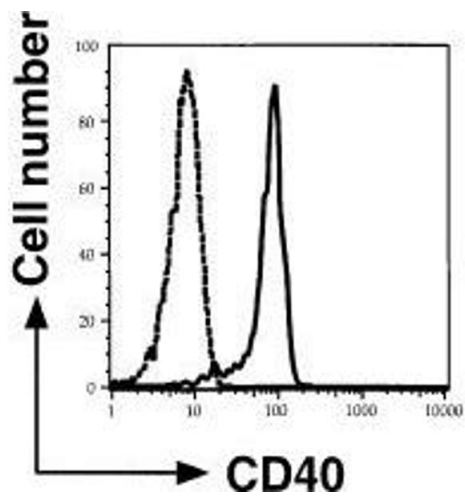
Storage: -20 °C

Publications

Product cited in: Murayama, Kurokawa, Mayanagi, Iwasaki: "Formation and branch migration of Holliday junctions mediated by eukaryotic recombinases." in: **Nature**, Vol. 451, Issue 7181, pp. 1018-21, (

2008) ([PubMed](#)).

Kurumizaka, Aihara, Kagawa, Shibata, Yokoyama: "Human Rad51 amino acid residues required for Rad52 binding." in: **Journal of molecular biology**, Vol. 291, Issue 3, pp. 537-48, (1999) ([PubMed](#)).

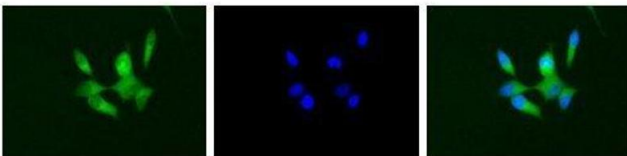


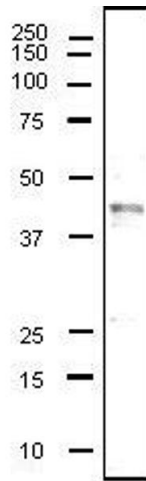
Flow Cytometry

Image 1.

Immunofluorescence

Image 2.





Western Blotting

Image 3.

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN2451933.