

Datasheet for ABIN2451934

anti-CD40 antibody (Extracellular Domain) (Biotin)[Go to Product page](#)**2** Images**3** Publications

Overview

Quantity:	50 µg
Target:	CD40
Binding Specificity:	Extracellular Domain
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD40 antibody is conjugated to Biotin
Application:	Flow Cytometry (FACS), Immunohistochemistry (Frozen Sections) (IHC (fro)), Immunostaining (Ist)

Product Details

Immunogen:	Recombinant extracellular domain of CD40
Clone:	5C3
Isotype:	IgG1 kappa
Sterility:	Sterile filtered

Target Details

Target:	CD40
Alternative Name:	CD40 (CD40 Products)
Background:	CD40 is a 45-50- kDa glycoprotein belonging to the tumor necrosis factor (TNF) receptor

Target Details

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. This antibody reacts with a 45-48 kDa type I integral membrane glycoprotein present on peripheral blood and tonsillar B cells, but not expressed on terminally differentiated B cells. The antibody against human CD40 was produced from hybridoma (5C3) cultured in serum-free medium and purified under mild conditions by proprietary chromatography processes.

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-fixed frozen section, indirect immuno-staining)
Comment:	Conjugate: [Biotin] / [IgG] = 7.1
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	0.75 mg/mL
Buffer:	PBS, 50 % glycerol
Preservative:	Azide free
Storage:	-20 °C

Publications

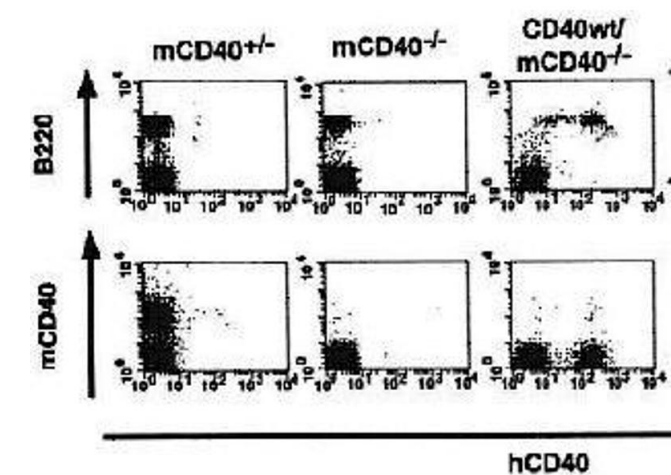
Product cited in:	Ishida, Kumanogoh, Suzuki, Akahani, Noda, Kikutani: "Involvement of CD100, a lymphocyte semaphorin, in the activation of the human immune system via CD72: implications for the regulation of immune and inflammatory responses." in: International immunology , Vol. 15,
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Issue 8, pp. 1027-34, (2003) ([PubMed](#)).

Yasui, Muraoka, Takaoka-Shichijo, Ishida, Takegahara, Uchida, Kumanogoh, Suematsu, Suzuki, Kikutani: "Dissection of B cell differentiation during primary immune responses in mice with altered CD40 signals." in: **International immunology**, Vol. 14, Issue 3, pp. 319-29, (2002) ([PubMed](#)).

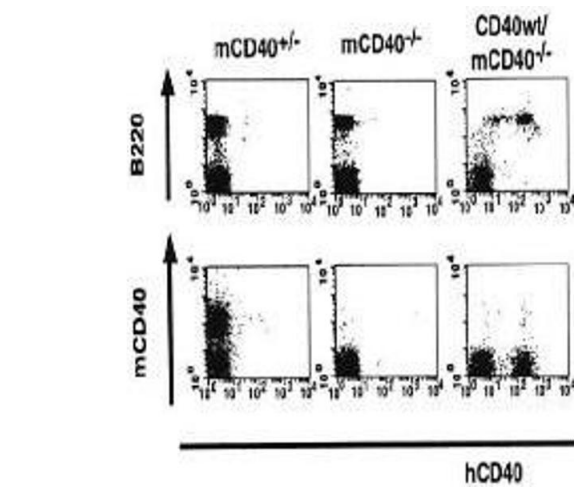
Inui, Kaisho, Kikutani, Stamenkovic, Seed, Clark, Kishimoto: "Identification of the intracytoplasmic region essential for signal transduction through a B cell activation molecule, CD40." in: **European journal of immunology**, Vol. 20, Issue 8, pp. 1747-53, (1990) ([PubMed](#)).

Images



Flow Cytometry

Image 1.



Flow Cytometry

Image 2.