

Datasheet for ABIN2451935

anti-CD40 antibody (Extracellular Domain) (FITC)[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 FITC
Application:	Flow Cytometry (FACS), Immunohistochemistry (Frozen Sections) (IHC (fro))

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 superfamily. CD40 is specifically expressed on the surface of B cells and specialized antigen-

Target Details

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,)

Comment: Conjugate: [FITC] / [IgG] = 5.5

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1.0 mg/mL

Buffer: PBS with 50 % Glycerol

Preservative: Azide free

Storage: -20 °C

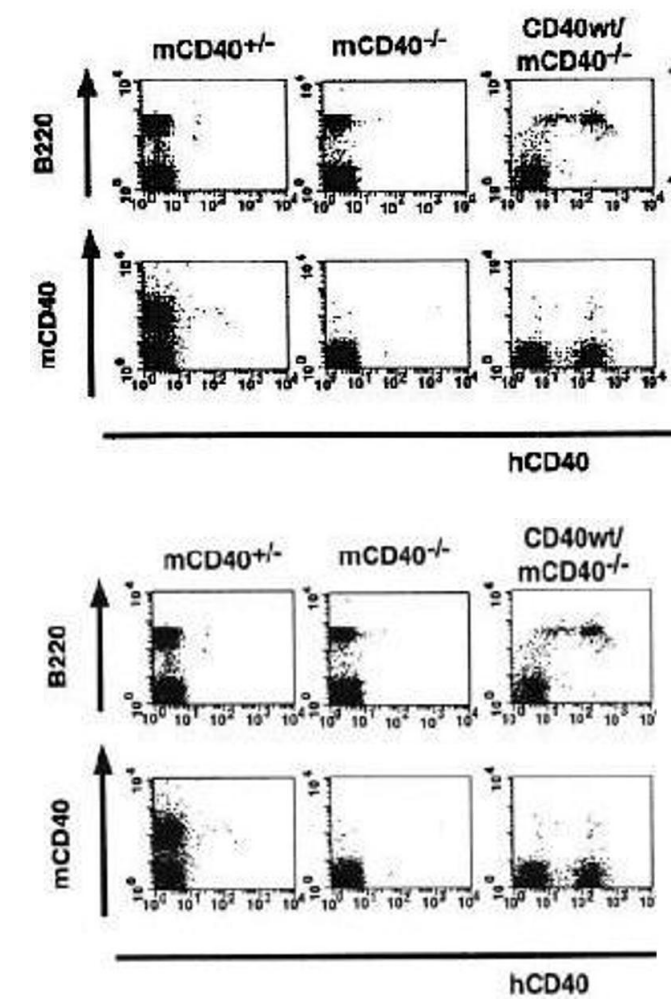
Publications

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, 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.