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Datasheet for ABIN7092901

anti-CD40 antibody (AA 21-193)

2 Images

Overview

Quantity:	100 µg
Target:	CD40
Binding Specificity:	AA 21-193
Reactivity:	Human
Host:	Rabbit
Clonality:	Monoclonal
Conjugate:	This CD40 antibody is un-conjugated
Application:	Flow Cytometry (FACS), ELISA

Product Details

Immunogen:	Recombinant human CD40 (Glu21-Arg193) (ABIN6961088) produced by using human HEK293 cells
Clone:	DM100
Isotype:	IgG
Purification:	Purified from cell culture supernatant by affinity chromatography

Target Details

Target:	CD40
Alternative Name:	CD40 (CD40 Products)
Background:	Synonyms:CD40, Bp50, CDW40, MGC9013, TNFRSF5, p50

Target Details

Description: This gene is a member of the TNF-receptor superfamily. The encoded protein is a receptor on antigen-presenting cells of the immune system and is essential for mediating a broad variety of immune and inflammatory responses including T cell-dependent immunoglobulin class switching, memory B cell development, and germinal center formation. AT-hook transcription factor AKNA is reported to coordinately regulate the expression of this receptor and its ligand, which may be important for homotypic cell interactions. Adaptor protein TNFR2 interacts with this receptor and serves as a mediator of the signal transduction. The interaction of this receptor and its ligand is found to be necessary for amyloid-beta-induced microglial activation, and thus is thought to be an early event in Alzheimer disease pathogenesis. Mutations affecting this gene are the cause of autosomal recessive hyper-IgM immunodeficiency type 3 (HIGM3). Multiple alternatively spliced transcript variants of this gene encoding distinct isoforms have been reported.

Molecular Weight: 30.6kDa

Gene ID: 958

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: ELISA 1/5000-10000, Flow Cyt 1/100

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Reconstitute with deionized water

Buffer: Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose is added as protectants before lyophilization., 0.1 % Procline 300

Preservative: ProClin

Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

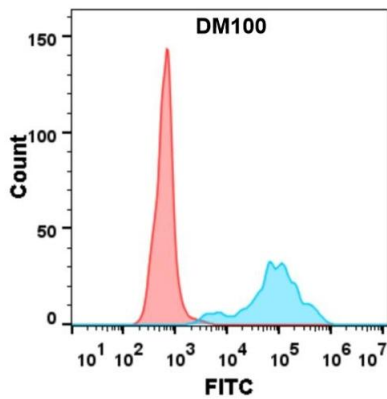
Handling

Storage: -20 °C,-80 °C

Storage Comment: Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing).
Lyophilized proteins are shipped at ambient temperature.

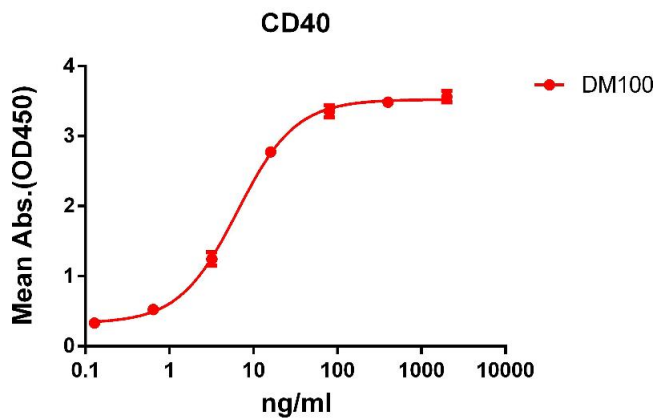
Expiry Date: 12 months

Images



Flow Cytometry

Image 1. Flow cytometry analysis with Anti-CD40 (DM100) on Expi293 cells transfected with human CD40 (Blue histogram) or Expi293 transfected with irrelevant protein (Red histogram).



ELISA

Image 2. ELISA plate pre-coated by 2 µg/mL (100 µL/well) Human CD40 protein, mFc-His tagged protein ((ABIN6961088, ABIN7042205 and ABIN7042206)) can bind Rabbit anti-CD40 monoclonal antibody(clone: DM100) in a linear range of 0.64-80 ng/mL.