



Datasheet for ABIN135211

anti-CD40 antibody



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1 Image

1 Publication

Overview

Quantity:	0.5 mg
Target:	CD40
Reactivity:	Mouse
Host:	Rat
Clonality:	Monoclonal
Conjugate:	This CD40 antibody is un-conjugated
Application:	Flow Cytometry (FACS)

Product Details

Immunogen:	sCD40
Clone:	1C10
Isotype:	IgG2a
Specificity:	Mouse CD40, Mr 45-50 kDa
Characteristics:	Rat Anti-Mouse CD40-UNLB
Purification:	Purified

Target Details

Target:	CD40
Alternative Name:	CD40 (CD40 Products)
Background:	CD40 is a type I cell surface protein belonging to the tumor necrosis factor superfamily of cell

Target Details

surface receptors. In mice it is expressed on B lineage cells, follicular dendritic cells, thymic epithelium, and interdigitating cells in the T-cell zone of secondary lymphoid organs. CD40 first becomes detectable on a subset of small pre-B II cells in bone marrow, with the levels of CD40 expression increasing thereafter during B-cell maturation. Immature B cells (IgM+IgDloB220lo) express intermediate levels of CD40, whereas mature B cells (IgM+IgDhiB220hi) express high levels. CD40 has a central role in B cell growth and differentiation, and signalling through CD40 in combination with IL-4 reportedly induces immunoglobulin isotype switching and secretion of IgE.

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:

- **Applications:** FC - Quality tested , IP - Reported in literature , Activ - Reported in literature , Block - Reported in literature
- **Working Dilutions:** Flow Cytometry FITC and BIOT conjugates 2 g/10⁶ cells PE, APC, and SPRD conjugates 0.5 g/10⁶ cells For flow cytometry, the suggested use of these reagents is in a final volume of 100 L

Comment: In vitro induction of proliferation of mature B lymphocyte

Sample Volume: 1 mL

Restrictions: For Research Use only

Handling

Concentration: 0.5 mg/mL

Buffer: 0.5 mg of purified immunoglobulin in 1.0 mL of borate buffered saline, pH 8.2. No preservatives or amine-containing buffer salts added

Preservative: Without preservative

Handling Advice: Each reagent is stable for the period shown on the bottle label if stored as directed.

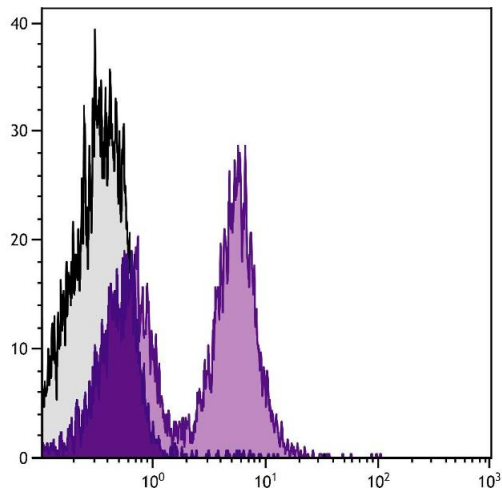
Storage: 4 °C

Storage Comment: Store at 2-8°C

Publications

Product cited in: Balmus, Karp, Ng, Jackson, Adams, McIntyre: "A high-throughput in vivo micronucleus assay for genome instability screening in mice." in: **Nature protocols**, Vol. 10, Issue 1, pp. 205-15, (2015) ([PubMed](#)).

Images



Flow Cytometry

Image 1. BALB/c mouse splenocytes were stained with Rat Anti-Mouse CD40-SPRD.