

## ARG22905 anti-CD40 antibody [3/23] (PE)

Package: 100 tests  
Store at: 4°C

### Summary

Product Description	PE-conjugated Rat Monoclonal antibody [3/23] recognizes CD40 Rat anti Mouse CD40 antibody, clone 3/23 recognizes the murine CD40 cell surface glycoprotein. It does not react with normal mouse Ig or with human IgG1 and will stain most mature mouse B cells. It does not cross react with mouse T cells. The specificity of Rat anti Mouse CD40 antibody, clone 3/23 was demonstrated by ELISA and flow cytometry using BHK cells transfected with mouse CD40. Rat anti Mouse CD40 antibody, clone 3/23 is a powerful activator of normal B cells especially in the presence of IL-4.
Tested Reactivity	Ms
Tested Application	FACS
Host	Rat
Clonality	Monoclonal
Clone	3/23
Isotype	IgG2a
Target Name	CD40
Species	Mouse
Immunogen	Extracellular Domain of Mouse CD40 and the Fc portion of Human IgG1.
Conjugation	PE
Alternate Names	CDw40; CD antigen CD40; Tumor necrosis factor receptor superfamily member 5; Bp50; CD40L receptor; CDW40; TNFRSF5; p50; B-cell surface antigen CD40

### Application Instructions

Application table	Application	Dilution
	FACS	Neat - 1:5
Application Note	<p>FACS: Use 10 µl of the suggested working dilution to label 10<sup>6</sup> cells in 100 µl. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.</p>	

### Properties

Form	Liquid
Purification	Purification with Protein G.
Buffer	PBS, 0.09% Sodium azide, 1% BSA and 5% Sucrose
Preservative	0.09% Sodium azide
Stabilizer	1% BSA and 5% Sucrose
Storage instruction	Aliquot and store in the dark at 2-8°C. Keep protected from prolonged exposure to light. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be

gently mixed before use.

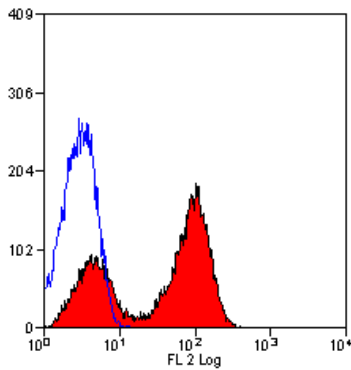
Note

For laboratory research only, not for drug, diagnostic or other use.

## Bioinformation

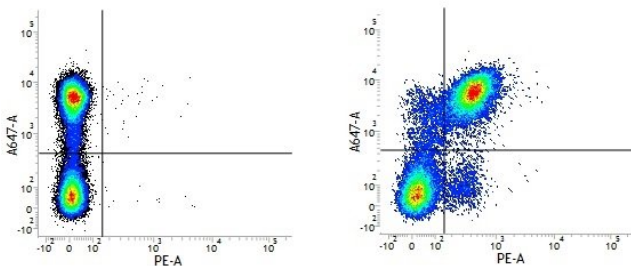
Gene Symbol	Cd40
Gene Full Name	CD40 antigen
Background	This gene is a member of the TNF-receptor superfamily. The encoded protein is a receptor on antigen-presenting cells of the immune system and is essential for mediating a broad variety of immune and inflammatory responses including T cell-dependent 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. [provided by RefSeq, Nov 2014]
Function	Receptor for TNFSF5/CD40LG. Transduces TRAF6- and MAP3K8-mediated signals that activate ERK in macrophages and B cells, leading to induction of immunoglobulin secretion. [UniProt]
Research Area	Cell Biology and Cellular Response antibody; Developmental Biology antibody; Immune System antibody; Pro-B Cell Marker antibody; Pre-B Cell Marker antibody
Calculated Mw	31 kDa

## Images



ARG22905 anti-CD40 antibody [3/23] (PE) FACS image

Flow Cytometry: Mouse splenocytes stained with ARG22905 anti-CD40 antibody [3/23] (PE).



ARG22905 anti-CD40 antibody [3/23] (PE) FACS image

Flow Cytometry: Figure A. A647 conjugated Rat anti Mouse CD45R and PE-conjugated Rat IgG2a isotype control. Figure B. A647 conjugated Rat anti Mouse CD45R and ARG22905 anti-CD40 antibody [3/23] (PE). All experiments performed on Mouse splenocytes.