

Product datasheet

APC Anti-CD40 antibody [1C10] ab25567

[1 References](#) [1 Image](#)

Overview

Product name	APC Anti-CD40 antibody [1C10]
Description	APC Rat monoclonal [1C10] to CD40
Host species	Rat
Conjugation	APC. Ex: 645nm, Em: 660nm
Tested applications	Suitable for: Flow Cyt
Species reactivity	Reacts with: Mouse
Immunogen	Recombinant fragment corresponding to CD40.
Positive control	Flow Cyt: BALB/c mouse splenocytes.
General notes	<p>This agonistic antibody closely resembles the gp39/CD40 ligand in it's ability to stimulate the proliferation of small, resting B lymphocytes in the absence of other cofactors. This antibody has been shown to be useful in studies of the 'in vitro' induction of proliferation of mature B lymphocytes.</p> <p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Store In the Dark.
Storage buffer	<p>pH: 7.3</p> <p>Preservative: 0.09% Sodium azide</p> <p>Constituents: PBS, 16% Sucrose</p> <p>Also contains a stabilizing agent.</p>
Purity	Affinity purified

Primary antibody notes	This agonistic antibody closely resembles the gp39/CD40 ligand in it's ability to stimulate the proliferation of small, resting B lymphocytes in the absence of other cofactors. This antibody has been shown to be useful in studies of the 'in vitro' induction of proliferation of mature B lymphocytes.
Clonality	Monoclonal
Clone number	1C10
Isotype	IgG2a
Light chain type	kappa

Applications

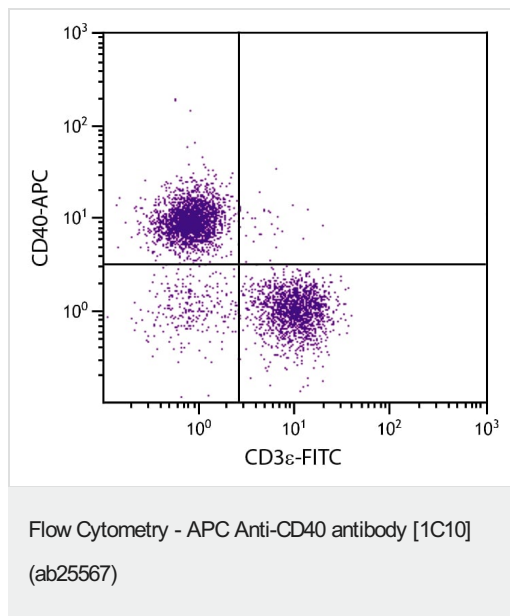
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab25567 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt		Use at an assay dependent concentration.

Target

Function	Receptor for TNFSF5/CD40LG.
Tissue specificity	B-cells and in primary carcinomas.
Involvement in disease	Defects in CD40 are the cause of hyper-IgM immunodeficiency syndrome type 3 (HIGM3) [MIM:606843]; also known as hyper-IgM syndrome 3. HIGM3 is an autosomal recessive disorder which includes an inability of B cells to undergo isotype switching, one of the final differentiation steps in the humoral immune system, an inability to mount an antibody-specific immune response, and a lack of germinal center formation.
Sequence similarities	Contains 4 TNFR-Cys repeats.
Cellular localization	Secreted and Cell membrane.

Images



Flow cytometric analysis of BALB/c mouse splenocytes labeling CD40 using ab25567 at 0.1 $\mu\text{g}/10^6$ cells in 100 μL . CD3 ϵ is labeled using a Rat Anti-Mouse CD3 ϵ (FITC) antibody.

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