

## Product datasheet

# PE/Cy5® Anti-CD40 antibody [1C10] ab25044

### 1 References

#### Overview

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<b>Product name</b>	PE/Cy5® Anti-CD40 antibody [1C10]
<b>Description</b>	PE/Cy5® Rat monoclonal [1C10] to CD40
<b>Host species</b>	Rat
<b>Conjugation</b>	PE/Cy5®. Ex: 496nm, Em: 670nm
<b>Tested applications</b>	<b>Suitable for:</b> IP, Flow Cyt, Functional Studies
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse
<b>Immunogen</b>	Recombinant fragment corresponding to CD40. sCD40
<b>General notes</b>	<p>This antibody closely resembles the gp39/CD40 ligand in its ability to stimulate proliferation of small, resting B lymphocytes in the absence of other cofactors.</p> <p>This product or portions thereof is manufactured under license from Carnegie Mellon University under U.S. Patent Number 5, 268, 486 and related patents. Cy® and CyDye® are trademarks of Cytiva.</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&amp;As</p>

#### Properties

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<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C.
<b>Storage buffer</b>	<p>pH: 7.1</p> <p>Preservative: 0.09% Sodium azide</p> <p>Constituents: PBS, 0.2% Gelatin, 16% Sucrose</p> <p>Stabilising agent.</p>
<b>Purity</b>	Affinity purified

<b>Primary antibody notes</b>	This antibody closely resembles the gp39/CD40 ligand in its ability to stimulate proliferation of small, resting B lymphocytes in the absence of other cofactors.
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	1C10
<b>Isotype</b>	IgG2a
<b>Light chain type</b>	kappa

## Applications

**The Abpromise guarantee** Our [Abpromise guarantee](#) covers the use of ab25044 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
IP		Use at an assay dependent concentration.
Flow Cyt		Use at an assay dependent concentration.
Functional Studies		Use at an assay dependent concentration. In vitro induction of proliferation of mature B lymphocytes.

## Target

<b>Function</b>	Receptor for TNFSF5/CD40LG.
<b>Tissue specificity</b>	B-cells and in primary carcinomas.
<b>Involvement in disease</b>	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.
<b>Sequence similarities</b>	Contains 4 TNFR-Cys repeats.
<b>Cellular localization</b>	Secreted and Cell membrane.

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If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

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