

### Anti-TRAP/CD40L antibody [MR-1] ab99894

[1 Image](#)

#### Overview

<b>Product name</b>	Anti-TRAP/CD40L antibody [MR-1]
<b>Description</b>	Armenian hamster monoclonal [MR-1] to TRAP/CD40L
<b>Host species</b>	Armenian hamster
<b>Specificity</b>	This antibody detects mouse TRAP/CD40L/CD154. a 39 kDa cell surface glycoprotein expressed predominantly on activated CD4+ lymphocytes.
<b>Tested applications</b>	<b>Suitable for:</b> Flow Cyt
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse
<b>Immunogen</b>	Tissue, cells or virus corresponding to Mouse TRAP/CD40L. activated mouse Th1 clone D1.6
<b>Positive control</b>	6-8 hour activated mouse splenocytes
<b>General notes</b>	<p>Functional Application: Blocking T cell costimulation in vivo.</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

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C or -80°C. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	<p>pH: 7.40</p> <p>Preservative: 0.097% Sodium azide</p> <p>Constituent: PBS</p>
<b>Purity</b>	Protein A purified
<b>Purification notes</b>	Purified from cell culture supernatant (> 95% by SDS-PAGE)
<b>Primary antibody notes</b>	Functional Application: Blocking T cell costimulation in vivo.

<b>Clonality</b>	Monoclonal
<b>Clone number</b>	MR-1
<b>Isotype</b>	IgG1

## Applications

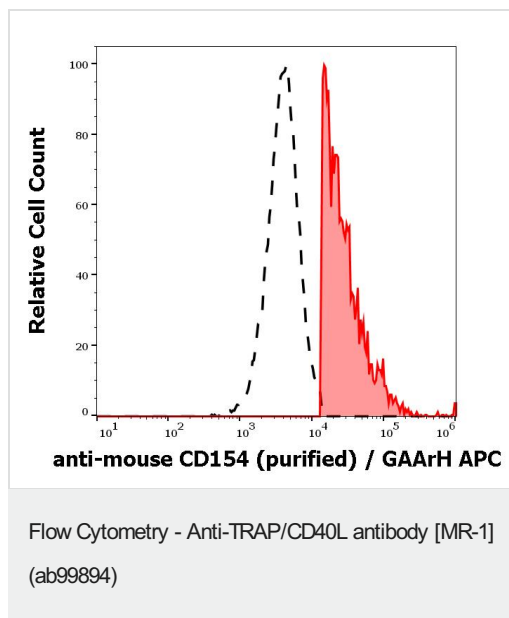
**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab99894 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt		Use a concentration of 3 µg/ml.

## Target

<b>Function</b>	Mediates B-cell proliferation in the absence of co-stimulus as well as IgE production in the presence of IL-4. Involved in immunoglobulin class switching. Release of soluble CD40L from platelets is partially regulated by GP IIb/IIIa, actin polymerization, and an matrix metalloproteinases (MMP) inhibitor-sensitive pathway.
<b>Tissue specificity</b>	Specifically expressed on activated CD4+ T-lymphocytes.
<b>Involvement in disease</b>	Defects in CD40LG are the cause of X-linked immunodeficiency with hyper-IgM type 1 (HIGM1) [MIM:308230]; also known as X-linked hyper IgM syndrome (XHIM). HIGM1 is an immunoglobulin isotype switch defect characterized by elevated concentrations of serum IgM and decreased amounts of all other isotypes. Affected males present at an early age (usually within the first year of life) recurrent bacterial and opportunistic infections, including Pneumocystis carinii pneumonia and intractable diarrhea due to cryptosporidium infection. Despite substitution treatment with intravenous immunoglobulin, the overall prognosis is rather poor, with a death rate of about 10% before adolescence.
<b>Sequence similarities</b>	Belongs to the tumor necrosis factor family.
<b>Post-translational modifications</b>	The soluble form derives from the membrane form by proteolytic processing. N-linked glycan is a mixture of high mannose and complex type. Glycan structure does not influence binding affinity to CD40. Not O-glycosylated.
<b>Cellular localization</b>	Secreted and Cell membrane.

## Images



Flow Cytometry analysis of CD154 positive cells (red) from mouse CD154 negative cells (black) using ab99894 at 3 µg/ml.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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