

Product datasheet

Biotin Anti-TRAP/CD40L antibody [24-31] α b134407

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Overview

Product name	Biotin Anti-TRAP/CD40L antibody [24-31]
Description	Biotin Mouse monoclonal [24-31] to TRAP/CD40L
Host species	Mouse
Conjugation	Biotin
Tested applications	Suitable for: Flow Cyt
Species reactivity	Reacts with: Human
Immunogen	Fusion protein corresponding to TRAP/CD40L.
Positive control	TPA+ ionomycin-stimulated Human PBMCs
General notes	<p>Store undiluted.</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 short term (1-2 weeks). Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	<p>pH: 7.20</p> <p>Preservative: 0.09% Sodium azide</p> <p>Constituent: 99% PBS</p>
Purity	Protein G purified
Clonality	Monoclonal
Clone number	24-31
Isotype	IgG1
Light chain type	kappa

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab134407 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 0.5µg for 10 ⁶ cells. Use 100 µl test volume. ab18434 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.

Target

Function

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.

Tissue specificity

Specifically expressed on activated CD4+ T-lymphocytes.

Involvement in disease

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.

Sequence similarities

Belongs to the tumor necrosis factor family.

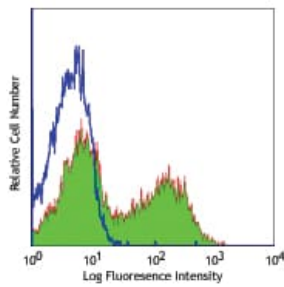
Post-translational modifications

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.

Cellular localization

Secreted and Cell membrane.

Images



Flow Cytometry - Biotin Anti-TRAP/CD40L antibody
[24-31] (ab134407)

Flow cytometric analysis of TRAP/CD40L in TPA and ionomycin-stimulated Human PBMCs stained with ab134407 at 0.5 µg per 10⁶ cells (in 100 µl volume), followed by Sav-PE. PBMCs were stimulated for 5 hours prior to analysis.

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

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