

Product datasheet

Biotin Anti-TRAP/CD40L antibody [MR1] ab24966

Overview

Product name	Biotin Anti-TRAP/CD40L antibody [MR1]
Description	Biotin Armenian hamster monoclonal [MR1] to TRAP/CD40L
Host species	Armenian hamster
Conjugation	Biotin
Specificity	ab24966 recognises CD154 (Mouse CD40 ligand/gp39), Mr 39-kDa
Tested applications	Suitable for: Flow Cyt
Species reactivity	Reacts with: Mouse
Immunogen	Tissue, cells or virus corresponding to Mouse TRAP/CD40L.

General notes

ab24966 binds to murine CD154 with high affinity, blocks binding to CD40, and blocks CD154 function. Administration of this antibody to mice blocks the ability to mount primary and secondary immune responses to TD antigens, yet does not alter the immune response to TI antigens.

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.

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

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at +4°C. Do Not Freeze. Store In the Dark.
Storage buffer	pH: 7.20 Preservative: 0.09% Sodium azide Constituents: 0.14% Monobasic dihydrogen sodium phosphate, 0.87% Sodium chloride, 0.1% Gelatin
Purity	Affinity purified
Primary antibody notes	ab24966 binds to murine CD154 with high affinity, blocks binding to CD40, and blocks CD154

function. Administration of this antibody to mice blocks the ability to mount primary and secondary immune responses to TD antigens, yet does not alter the immune response to TI antigens.

Clonality	Monoclonal
Clone number	MR1
Isotype	IgG
Light chain type	kappa

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab24966 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	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.

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

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery

- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

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.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors