


## Product datasheet

### Anti-TRAP/CD40L antibody ab65854

★★★★★ [2 Abreviews](#) [12 References](#) [3 Images](#)

#### Overview

<b>Product name</b>	Anti-TRAP/CD40L antibody
<b>Description</b>	Rabbit polyclonal to TRAP/CD40L
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> IHC-P, WB
<b>Species reactivity</b>	<b>Reacts with:</b> Rat, Human <b>Predicted to work with:</b> Mouse 
<b>Immunogen</b>	Synthetic peptide corresponding to Human TRAP/CD40L (N terminal). Different from the relative mouse sequence by two amino acids Database link: <a href="#">P29965</a>
<b>Positive control</b>	IHC-P: Rat intestine, human mammary tissues. WB: MCF-7, HeLa, Jurkat, HMY2, COLO320 whole cell lysate.
<b>General notes</b>	<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. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
<b>Storage buffer</b>	Preservatives: 0.025% Thimerosal (merthiolate), 0.025% Sodium azide Constituents: 2.5% BSA, 0.45% Sodium chloride, 0.1% Dibasic monohydrogen sodium phosphate
<b>Purity</b>	Immunogen affinity purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

## Applications

### The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab65854 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
IHC-P	★★★★★ (1)	Use a concentration of 1 - 2 µg/ml. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.
WB		Use a concentration of 1 - 2 µg/ml. Detects a band of approximately 32 kDa (predicted molecular weight: 29 kDa).

## 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.

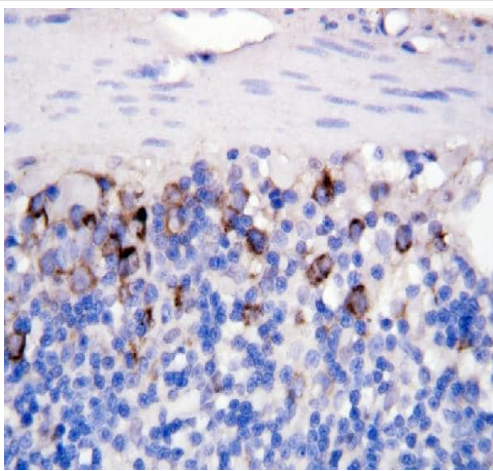
### Post-translational modifications

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.

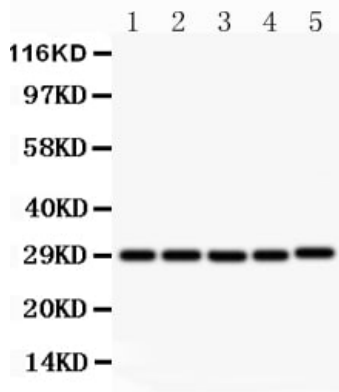
## Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TRAP/CD40L antibody (ab65854)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of sCD40L using ab65854

TRAP/CD40L was detected in paraffin-embedded section of rat intestine tissues. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1µg/ml ab65854 overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Streptavidin-Biotin-Complex with DAB as the chromogen.



Western blot - Anti-TRAP/CD40L antibody (ab65854)

**All lanes :** Anti-TRAP/CD40L antibody (ab65854) at 0.5 µg/ml

**Lane 1 :** MCF-7 whole cell lysate

**Lane 2 :** HeLa whole cell lysate

**Lane 3 :** Jurkat whole cell lysate

**Lane 4 :** HMY2 whole cell lysate

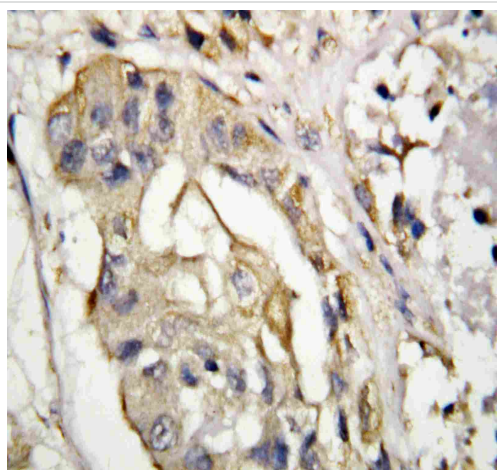
**Lane 5 :** COLO320 whole cell lysate

Lysates/proteins at 50 µg per lane.

### Secondary

**All lanes :** Goat anti-rabbit IgG-HRP at 1/10000 dilution

**Predicted band size:** 29 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TRAP/CD40L antibody (ab65854)

TRAP/CD40L was detected in paraffin-embedded section of human mammary tissues. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1 µg/ml ab65854 overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Streptavidin-Biotin-Complex with DAB as the chromogen.

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

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