

## Product datasheet

### Anti-CD70 antibody [BU69] ab77868

★★★★★ [4 Abreviews](#) [7 References](#) [6 Images](#)

#### Overview

<b>Product name</b>	Anti-CD70 antibody [BU69]
<b>Description</b>	Mouse monoclonal [BU69] to CD70
<b>Host species</b>	Mouse
<b>Tested applications</b>	<b>Suitable for:</b> Flow Cyt, IHC-Fr
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	The details of the immunogen for this antibody are not available.
<b>Positive control</b>	IHC-Fr: Human tonsil, and human kidney tissue. Flow Cyt: Raji cells.
<b>General notes</b>	<p>This antibody clone is manufactured by Abcam. If you require a custom buffer formulation or conjugation for your experiments, please contact <a href="mailto:orders@abcam.com">orders@abcam.com</a>.</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). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	Preservative: 0.02% Sodium azide Constituents: PBS, 6.97% L-Arginine
<b>Purity</b>	Protein G purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	BU69
<b>Isotype</b>	IgG1
<b>Light chain type</b>	kappa

## Applications

### The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab77868 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	★★★★★ (2)	Use a concentration of 1 µg/ml. <b>ab170190</b> - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.
IHC-Fr	★★★★★ (1)	Use a concentration of 5 µg/ml.

## Target

### Function

Cytokine that binds to CD27. Plays a role in T-cell activation. Induces the proliferation of costimulated T-cells and enhances the generation of cytolytic T-cells.

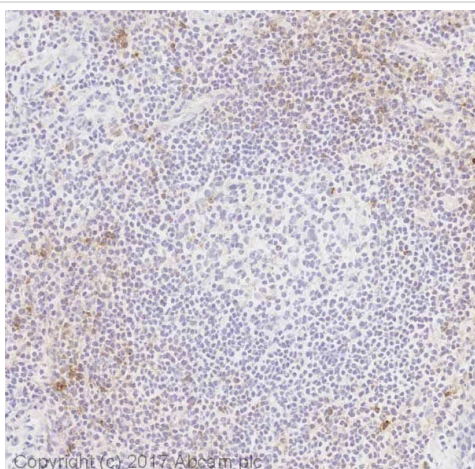
### Sequence similarities

Belongs to the tumor necrosis factor family.

### Cellular localization

Membrane.

## Images

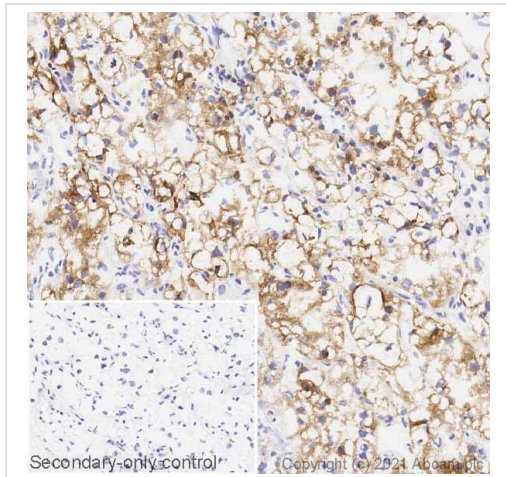


Copyright (c) 2017 Abcam plc

Immunohistochemistry (Frozen sections) - Anti-CD70 antibody [BU69] (ab77868)

IHC image of CD70 staining in human tonsil frozen tissue section, fixed in 10% paraformaldehyde (10 min). Staining was performed on a Leica Bond system using the standard protocol F. The section was then incubated with ab77868, 5µg/ml, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

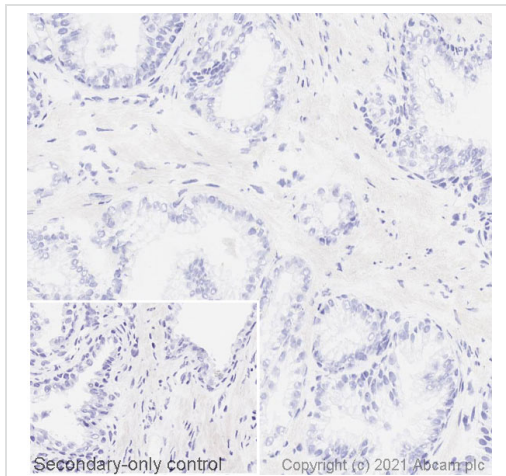
For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.



Immunohistochemistry (Frozen sections) - Anti-CD70 antibody [BU69] (ab77868)

IHC image of CD70 staining in a section of frozen human kidney RCC performed on a Leica BOND™ system using the standard protocol. The section was fixed in 10% paraformaldehyde (10 min) prior to staining. The section was incubated with ab77868, 5ug/ml, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX. The inset secondary-only control image is taken from an identical assay without primary antibody.

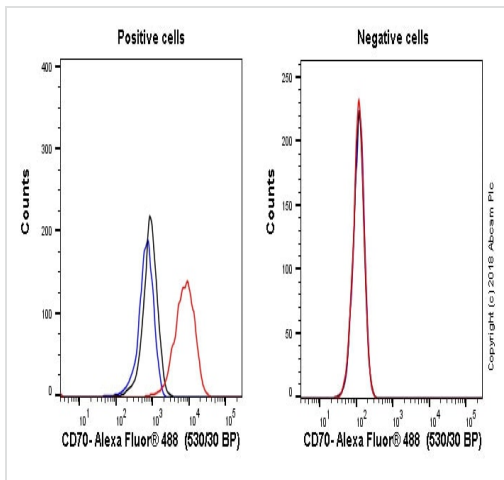
For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.



Immunohistochemistry (Frozen sections) - Anti-CD70 antibody [BU69] (ab77868)

**Negative tissue image.** IHC image of CD70 staining in a section of frozen human prostate carcinoma performed on a Leica BOND™ system using the standard protocol. The section was fixed in 10% paraformaldehyde (10 min) prior to staining. The section was incubated with ab77868, 5ug/ml, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX. The inset secondary-only control image is taken from an identical assay without primary antibody.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.

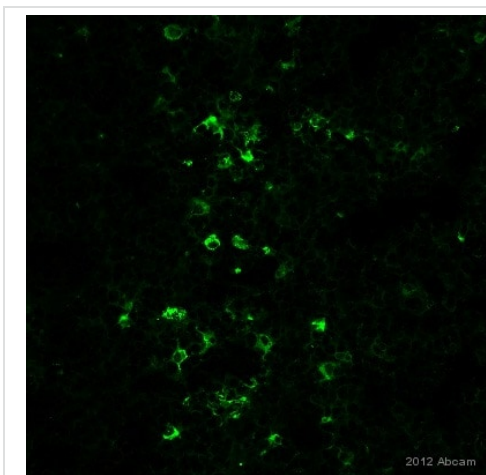


Flow Cytometry - Anti-CD70 antibody [BU69]  
(ab77868)

Overlay histograms showing left Raji and right SHSY5Y cells stained with ab77868 (red line). The cells were incubated in 1x PBS / 10% normal goat serum to block non-specific protein-protein interactions followed by the antibody (ab77868) ( $1 \times 10^6$  in 100  $\mu$ l at 1  $\mu$ g/ml) for 30 min on ice.

The secondary antibody Goat anti-mouse IgG H&L (Alexa Fluor<sup>®</sup> 488, pre-adsorbed) (**ab150177**) was used at 1/2000 dilution for 30 min at 4°C. Isotype control antibody (black line) was mouse IgG1k (**ab170190**) used at the same concentration and conditions as the primary antibody. Unlabelled sample (blue line) was also used as a control.

Acquisition of >5,000 events were collected using a 50 mW Blue laser (488nm) and 530/30 bandpass filter. Events were gated on viable single cells.

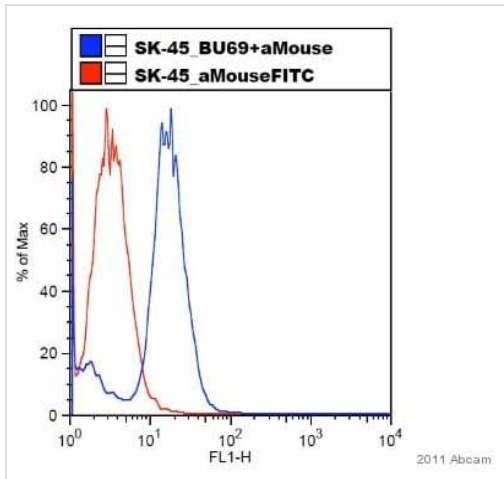


Immunohistochemistry (Frozen sections) - Anti-CD70 antibody [BU69] (ab77868)

This image is courtesy of an anonymous Abreview

Immunohistochemical analysis of Human tonsil tissue, staining CD70 with ab77868.

Tissue was fixed with acetone and blocked with 6% serum for 30 minutes at 25°C. Samples were incubated with primary antibody (1/100 in 2% BSA in PBS) for 1 hour at 25°C. An AlexaFluor®488-conjugated goat anti-mouse monoclonal IgG (1/250) was used as the secondary antibody.



Flow Cytometry - Anti-CD70 antibody [BU69]  
(ab77868)

Image courtesy of Tatiana Karakasheva by Abreview.

ab77868 used in Flow Cytometry. Red histogram represents cells stained with secondary alone **ab8517** at a 1/200 dilution, blue histogram - Formaldehyde fixed SK-RC-45 human renal carcinoma cells stained with **ab77868** at a 1/100 dilution. FL1-H - green channel

**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