## Overview

<table>
<thead>
<tr>
<th>Product name</th>
<th>Anti-CD70 antibody [BU69]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>Mouse monoclonal [BU69] to CD70</td>
</tr>
<tr>
<td>Host species</td>
<td>Mouse</td>
</tr>
<tr>
<td>Specificity</td>
<td>This antibody inhibits T cell proliferation induced by dendritic cells.</td>
</tr>
<tr>
<td>Tested applications</td>
<td>Suitable for: Flow Cyt, IHC-Fr, IP, Functional Studies, Inhibition Assay, IHC-P, ELISA</td>
</tr>
<tr>
<td>Species reactivity</td>
<td>Reacts with: Human</td>
</tr>
<tr>
<td>Immunogen</td>
<td>Tissue, cells or virus corresponding to CD70.</td>
</tr>
<tr>
<td>General notes</td>
<td>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>.</td>
</tr>
</tbody>
</table>

## Properties

<table>
<thead>
<tr>
<th>Form</th>
<th>Liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Storage buffer</td>
<td>Preservative: 0.02% Sodium azide&lt;br&gt;Constituents: PBS, 6.97% L-Arginine</td>
</tr>
<tr>
<td>Purity</td>
<td>Protein G purified</td>
</tr>
<tr>
<td>Clonality</td>
<td>Monoclonal</td>
</tr>
<tr>
<td>Clone number</td>
<td>BU69</td>
</tr>
<tr>
<td>Isotype</td>
<td>IgG1</td>
</tr>
<tr>
<td>Light chain type</td>
<td>kappa</td>
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## Applications

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.
**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.

### Application | Abreviews | Notes
--- | --- | ---
Flow Cyt |  | Use a concentration of 1 µg/ml. 
**ab170190** - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.

IHC-Fr |  | Use a concentration of 5 mg/ml.

IP |  | Use at an assay dependent concentration.

Functional Studies |  | Use at an assay dependent concentration.

Inhibition Assay |  | Use at an assay dependent concentration.

IHC-P | 1/100. PubMed: 23776334 |

ELISA |  | Use at an assay dependent concentration.

### 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
Overlay histograms showing left Raji and right SH-SY5Y 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) (1x10^6 in 100µl at 1 µg/ml) for 30 min on ice.

The secondary antibody Goat anti-mouse IgG H&L (Alexa Fluor ® 488, pre-adsorbed) (**ab150177**) was used at 1/2000 dilution for 30 min at 4°C. Isotype control antibody (black line) was mouse IgG1κ (**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.
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.

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 ab78868 at a 1/100 dilution. FL1-H - green channel.

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

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