

Datasheet: MCA1765G

Description:	MOUSE ANTI HUMAN CD70
Specificity:	CD70
Other names:	TNFSF7
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	Bu69
Isotype:	IgG1
Quantity:	0.2 mg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			1/50 - 1/200
Immunohistology - Frozen	▪			
Immunohistology - Paraffin			▪	
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting			▪	

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

Target Species	Human
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide

Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1.0mg/ml
External Database Links	<p>UniProt: P32970 Related reagents</p> <p>Entrez Gene: 970 CD70 Related reagents</p>
Synonyms	CD27L, CD27LG, TNFSF7
RRID	AB_2075214
Specificity	<p>Mouse anti Human CD70 antibody, clone Bu69 recognises human CD70, also known as CD27 ligand (CD27-L) or Tumor necrosis factor ligand superfamily member 7. CD70 is a 193 amino acid ~29 kDa single pass type II transmembrane glycoprotein belonging to the tumour necrosis factor (TNF) family (UniProt: P32970).</p> <p>CD70 is expressed on a small number of activated T-cells and the majority of activated B-cells (Bowman et al. 1994). Interaction of CD70 with its receptor, CD27, is thought to play an important role in lymphocyte activation, proliferation, survival and differentiation (Hintzen et al. 1994).</p> <p>Mouse anti Human CD70 antibody, clone Bu69 has been used for the inhibition of neural stem cell induced apoptosis of allogeneic T cells <i>in vitro</i> (Lee et al. 2013).</p>
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul.
References	<ol style="list-style-type: none"> 1. Garland Publishing. (1997) Leucocyte typing VI. White cell differentiation antigens. p522 - 4 2. Zambello, R. <i>et al.</i> (2000) Analysis of TNF-receptor and ligand superfamily molecules in patients with lymphoproliferative disease of granular lymphocytes. Blood. 96 (2): 647-54. 3. Lee, E.M. <i>et al.</i> (2013) CD70-CD27 ligation between neural stem cells and CD4+ T cells induces Fas-FasL-mediated T-cell death. Stem Cell Res Ther. 4 (3): 56.
Storage	<p>This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.</p>
Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: 10040: https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Rabbit Anti Mouse IgG (STAR8...)	DyLight®800
Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos. , HRP
Rabbit Anti Mouse IgG (STAR13...)	HRP
Goat Anti Mouse IgG (STAR70...)	FITC
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight®488 , DyLight®550 , DyLight®650 , DyLight®680 , DyLight®800 , FITC , HRP

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

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To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets
'M383586:210513'

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