

# CD70 monoclonal antibody, clone BU69

Catalog # MAB6921      Size 100 ug

## Specification

|                      |                                                                                                                 |
|----------------------|-----------------------------------------------------------------------------------------------------------------|
| Product Description  | Mouse monoclonal antibody raised against native CD70.                                                           |
| Immunogen            | Native purified CD70 from human WM-1 (Waldenstrom's macroglobulinemia) cell line.                               |
| Host                 | Mouse                                                                                                           |
| Theoretical MW (kDa) | 30                                                                                                              |
| Reactivity           | Human                                                                                                           |
| Specificity          | This antibody recognizes CD70.                                                                                  |
| Form                 | Liquid                                                                                                          |
| Isotype              | IgG1                                                                                                            |
| Recommend Usage      | The optimal working dilution should be determined by the end user.                                              |
| Storage Buffer       | In 50 mM sodium phosphate buffer, 100 mM potassium Chloride, 150 mM NaCl, pH 7.5 (0.5 mg/mL gentamicin sulfate) |
| Storage Instruction  | Store at 4°C.                                                                                                   |

## Applications

- Immunohistochemistry (Frozen sections)
- Immunoprecipitation
- Flow Cytometry

## Gene Info — CD70

|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Entrez GeneID      | <a href="#">970</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Gene Name          | CD70                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Gene Alias         | CD27L, CD27LG, TNFSF7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Gene Description   | CD70 molecule                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Omim ID            | <a href="#">602840</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Gene Ontology      | <a href="#">Hyperlink</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Gene Summary       | The protein encoded by this gene is a cytokine that belongs to the tumor necrosis factor (TNF) lig and family. This cytokine is a ligand for TNFRSF27/CD27. It is a surface antigen on activated, but not on resting, T and B lymphocytes. It induces proliferation of costimulated T cells, enhances the generation of cytolytic T cells, and contributes to T cell activation. This cytokine is also reported to play a role in regulating B-cell activation, cytotoxic function of natural killer cells, and immunoglobul in sythesis. [provided by RefSeq |
| Other Designations | CD27 ligand CD70 antigen Ki-24 antigen surface antigen CD70 tumor necrosis factor (ligand) su perfamily, member 7 tumor necrosis factor ligand superfamily, member 7                                                                                                                                                                                                                                                                                                                                                                                          |

## Publication Reference

- [Soluble CD27 induces IgG production through activation of antigen-primed B cells.](#)

Dang LV, Nilsson A, Ingelman-Sundberg H, Cagigi A, Gelinck LB, Titanji K, De Milioto A, Grutzmeier S, Hedlund J, Kroon FP, Chiodi F.

Journal of Internal Medicine 2012 Mar; 271(3):282.

Application: Flow Cyt, Human, PBMCs

- [Lipopolysaccharide stimulation converts vigorously washed dendritic cells \(DCs\) to nonexhausted DCs expressing CD70 and evoking long-lasting type 1 T cell responses.](#)

Iwamoto S, Ishida M, Takahashi K, Takeda K, Miyazaki A.

Journal of Leukocyte Biology 2005 Aug; 78(2):383.

Application: Flow Cyt, Human, Dendritic cells (DCs)

- [Identification of CD70-mediated apoptosis of immune effector cells as a novel immune escape pathway of human glioblastoma.](#)

Wischhusen J, Jung G, Radovanovic I, Beier C, Steinbach JP, Rimner A, Huang H, Schulz JB, Ohgaki H, Aguzzi A, Rammensee HG, Weller M.

Cancer Research 2002 May; 62(9):2592.

Application: Flow Cyt, IHC, WB-Ce, Human, LN-18, U138-MG, U87MG, LN-428, D247MG, T98G, LN-319, LN-229, A172, U251MG, U373MG, LN-308, Glioma cells

- [Direct cellular communications between CD45R0 and CD45RA T cell subsets via CD27/CD70.](#)

Agematsu K, Kobata T, Sugita K, Hirose T, Schlossman SF, Morimoto C.

The Journal of Immunology 1995 Apr; 154(8):3627.

Application: IF, Human, CD45RA+/CD45RO+ CD4 T cells

## Pathway

- [Cytokine-cytokine receptor interaction](#)

## Disease

- [Genetic Predisposition to Disease](#)
- [Hematologic Diseases](#)
- [Hodgkin Disease](#)
- [Lymphoproliferative Disorders](#)
- [Multiple Myeloma](#)
- [Occupational Diseases](#)
- [Ovarian Neoplasms](#)
- [Waldenstrom Macroglobulinemia](#)
- [Werner syndrome](#)