Technical Data Sheet

# PE Mouse Anti-Human CD70

## Product Information

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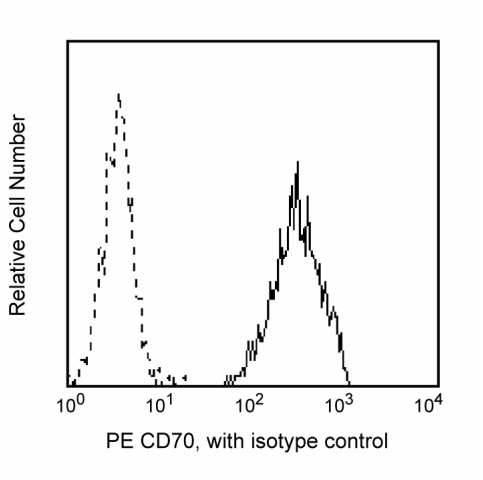
| **Material Number:** | **555835** |
| **Alternate Name:** | CDw70; CD27 ligand; CD27-L; CD27L; CD27LG; Ki-24 antigen; TNFSF7 |
| **Size:** | 100 Tests |
| **Vol. per Test:** | 20 µl |
| **Clone:** | Ki-24 |
| **Immunogen:** | Human L428 Cell Line |
| **Isotype:** | Mouse IgG3, κ |
| **Reactivity:** | QC Testing: Human |
| **Workshop:** | III 166; IV A109 |
| **Storage Buffer:** | Aqueous buffered solution containing BSA and ≤0.09% sodium azide. |

## Description

The Ki-24 monoclonal antibody specifically binds to human CD70. CD70 is a type II transmembrane glycoprotein and member of the TNF Superfamily. CD70 is also known as Tumor necrosis factor ligand superfamily member 7 (TNFSF7), CD27 ligand (CD27-L, CD27L, CD27LG), and KI-24 antigen. The CD70 antigen immunoprecipitates as five bands (50, 70, 90, 100 and 160 kDa) under non-reducing conditions. CD70 is strongly expressed on Reed-Sternberg cells, some activated T or B cells and Epstein Barr Virus (EBV)-positive lymphoblastoid cell lines. CD70 plays roles in the activation, proliferation and differentiation of B cells and T cells including the enhanced production of cytotoxic T cells.




***Flow cytometric analysis of CD70 expression on U266 (human plasma) cell line.*** *U266 cells were stained with either PE Mouse Anti-Human CD70 (Cat. No. 555835/561935; solid line histogram) or PE Mouse IgG3, κ Isotype Control (Cat. No. 556659; dashed line histogram). Fluorescent histograms were derived from gated events with the side and forward light-scattering characteristics of viable cells. Flow cytometry was performed on a BD FACScan™ system.*

## Preparation and Storage

Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

The antibody was conjugated with R-PE under optimum conditions, and unconjugated antibody and free PE were removed.

## Application Notes

**Application**

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| Flow cytometry | Routinely Tested |

## Suggested Companion Products

| Catalog Number | Name | Size | Clone |
|---|---|---|---|
| 554656 | Stain Buffer (FBS) | 500 mL | (none) |
| 554657 | Stain Buffer (BSA) | 500 mL | (none) |
| 556659 | PE Mouse IgG3, κ Isotype Control | 50 Tests | J606 |
| 561935 | PE Mouse Anti-Human CD70 | 25 Tests | Ki-24 |

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| 877.232.8995 | 866.979.9408 | 32.2.400.98.95 | 0120.8555.90 | 65.6861.0633 | 55.11.5185.9995 |

For country contact information, visit **bdbiosciences.com/contact**

## Product Notices

1. This reagent has been pre-diluted for use at the recommended Volume per Test. We typically use 1 × 10^6 cells in a 100-µl experimental sample (a test).
2. An isotype control should be used at the same concentration as the antibody of interest.
3. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
4. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
5. For fluorochrome spectra and suitable instrument settings, please refer to our Multicolor Flow Cytometry web page at www.bdbiosciences.com/colors.
6. Please refer to http://regdocs.bd.com to access safety data sheets (SDS).
7. Please refer to www.bdbiosciences.com/us/s/resources for technical protocols.

## References


Stein H, Ferszt A, Dallenbach F, et al. CDw70 mAb A109 (Ki-24): expression by reactive and neoplastic lymphoid cells. In: Knapp W. W. Knapp .. et al., ed. *Leucocyte typing IV : white cell differentiation antigens.* Oxford New York: Oxford University Press; 1989:449-451. (Clone-specific)

Stein H, Schwarting R, Niedobitek G, Dallenbach F. Cluster report: CDw70. In: Knapp W. W. Knapp .. et al., ed. *Leucocyte typing IV : white cell differentiation antigens.* Oxford New York: Oxford University Press; 1989:446-449. (Clone-specific)

Knapp W. W. Knapp .. et al., ed. *Leucocyte typing IV : white cell differentiation antigens.* Oxford New York: Oxford University Press; 1989:1-1182. (Clone-specific)

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Stein H, Gerdes J, Schwab U, et al. Evidence for the detection of the normal counterpart of Hodgkin and Sternberg-Reed cells. *Hematol Oncol.* 1(1):21-9. (Clone-specific)

Stein H, Gerdes J, Schwarting R, Froese P, Lemke H. Three new lymphoid activation antigens. In: McMichael AJ. A.J. McMichael .. et al., ed. *Leucocyte typing III : white cell differentiation antigens.* Oxford New York: Oxford University Press; 1987:574. (Clone-specific)