Technical Data Sheet

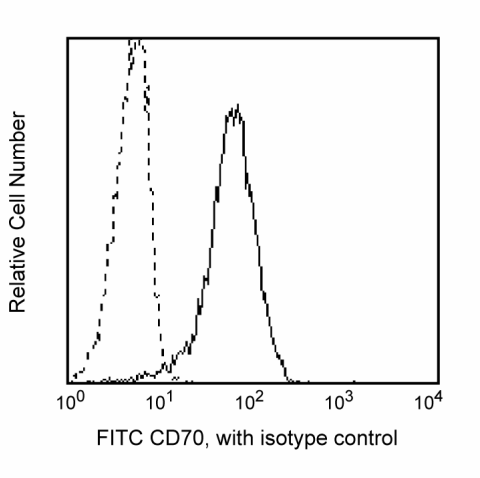
FITC Mouse Anti-Human CD70

Product Information

Material Number:	**555834**
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 stimulated human peripheral blood mononuclear cells. *Human PBMCs were stimulated with CD3 and CD28 for 7 days, then stained with either FITC Mouse Anti-Human CD70 (Cat. No. 555834; solid line histogram) or FITC Mouse IgG3, κ Isotype Control (Cat. No. 555578; 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 FITC under optimum conditions, and unreacted FITC was removed.

Application Notes

Application

Flow cytometry	Routinely Tested

Suggested Companion Products

Catalog Number	Name	Size	Clone
555578	FITC Mouse IgG3, κ Isotype Control	100 Tests	J606
554657	Stain Buffer (BSA)	500 mL	(none)
554656	Stain Buffer (FBS)	500 mL	(none)

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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 www.bdbiosciences.com/pharmingen/protocols 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)

Schlossman SF. Stuart F. Schlossman .. et al., ed. *Leucocyte typing V : white cell differentiation antigens : proceedings of the fifth international workshop and conference held in Boston, USA, 3-7 November, 1993.* Oxford: Oxford University Press; 1995(Biology)

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)