

Technical Data Sheet

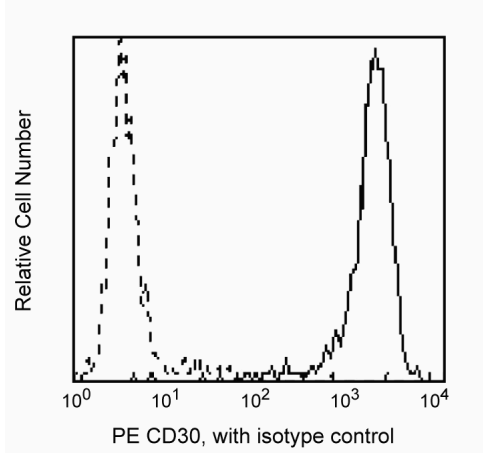
PE Mouse Anti-Human CD30

Product Information

Material Number:	550041
Alternate Name:	Ki-1
Size:	100 tests
Vol. per Test:	20 µl
Clone:	BerH8
Isotype:	Mouse IgG1, κ
Reactivity:	QC Testing: Human
Workshop:	IV A105
Storage Buffer:	Aqueous buffered solution containing BSA and ≤0.09% sodium azide.

Description

Reacts with a 120 kD type I transmembrane glycoprotein expressed on in-vitro stimulated T and B cells. CD30 is an activation marker which was initially identified on Reed-Sternberg cells and is also expressed on a few extrafollicular T and B cells located at the rim of germinal centers. It is a cytokine receptor which belongs to the nerve growth factor receptor/tumor necrosis factor receptor (NGFR/TNFR) superfamily. CD30 interaction with CD30 ligand (CD30L) can mediate signals for proliferation, apoptosis and cytotoxicity of lymphoid cells.



Preparation and Storage

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

Application Notes

Application

Flow cytometry	Routinely Tested
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Suggested Companion Products

Catalog Number	Name	Size	Clone
555749	PE Mouse IgG1, κ Isotype Control	100 tests	MOPC-21

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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 X 10⁶ cells in a 100-μl experimental sample (a test).
2. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
3. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.
4. For fluorochrome spectra and suitable instrument settings, please refer to our Fluorochrome Web Page at www.bdbiosciences.com/pharmingen/colors.
5. 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.
6. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

References

- Schlossman SF, Boumsell L, Gilks W, et al, ed. *Leukocyte Typing V: White Cell Differentiation Antigens*. New York: Oxford University Press; 1995.(Biology)
- Knapp W, Dorken B, Rieber EP, et al, ed. *Leucocyte Typing IV*. New York: Oxford University Press; 1989.(Clone-specific)
- Bowen MA, Olsen KJ, Cheng L, Avila D, Podack ER. Functional effects of CD30 on a large granular lymphoma cell line, YT. Inhibition of cytotoxicity, regulation of CD28 and IL-2R, and induction of homotypic aggregation. *J Immunol*. 1993; 151(11):5896-5906.(Biology)