

Technical Data Sheet

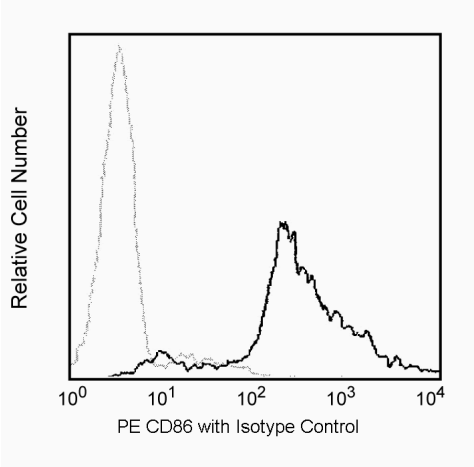
PE Mouse Anti-Human CD86

Product Information

Material Number:	555665
Alternate Name:	B70/B7-2
Size:	100 tests
Vol. per Test:	20 µl
Clone:	IT2.2
Isotype:	Mouse IgG2b, κ
Reactivity:	QC Testing: Human
Workshop:	VI CD86.8
Storage Buffer:	Aqueous buffered solution containing BSA and ≤0.09% sodium azide.

Description

IT2.2 recognizes a 75 kDa cell surface protein, CD86 (B70/B7-2), expressed primarily on monocytes and activated B cells including lymphoid cells in germinal centers and Epstein-Barr virus transformed B-cell lines. CD86 is the second ligand for CD28 and CTLA-4 and may play an important role in costimulation of T cells in primary immune response. Competitive binding assays demonstrate that, while both IT2.2 and FUN-1 (anti-CD86, Cat. No. 555665) recognize the same molecule, they react with different epitopes. IT2.2 blocks costimulation activity of CD86 in functional studies and blocks binding of human CTLA-4-Ig fusion protein to B70 gene-transfected cells.



Profile of IgM-activated B cells (CD20+ gated) analyzed on a BD FACScan™ flowcytometer 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

Flow cytometry	Routinely Tested
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Suggested Companion Products

Catalog Number	Name	Size	Clone
555743	PE Mouse IgG2b κ Isotype Control	100 tests	27-35
554656	Stain Buffer (FBS)	500 ml	(none)

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. For fluorochrome spectra and suitable instrument settings, please refer to our Multicolor Flow Cytometry web page at www.bdbiosciences.com/colors.
3. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

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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. An isotype control should be used at the same concentration as the antibody of interest.
6. Please refer to www.bdbiosciences.com/pharming/en/protocols for technical protocols.

References

Azuma M, Ito D, Yagita H, et al. B70 antigen is a second ligand for CTLA-4 and CD28. *Nature*. 1993; 366(6450):76-79. (Biology)

Engel P, Gribben JG, Freeman GJ, et al. The B7-2 (B70) costimulatory molecule expressed by monocytes and activated B lymphocytes is the CD86 differentiation antigen. *Blood*. 1994; 84(5):1402-1407. (Biology)

Engel P, Wagner N, Zhou L, et al. CD86 Workshop Report. In: Schlossman SF, Boumsell L, Gilks W, et al, ed. *Leukocyte Typing V: White Cell Differentiation Antigens*. New York: Oxford University Press; 1995. (Biology)

Nozawa Y, Wachi E, Tominaga K, Abe M, Wakasa H. A novel monoclonal antibody (FUN-1) identifies an activation antigen in cells of the B-cell lineage and Reed-Sternberg cells. *J Pathol*. 1993; 169(3):309-315. (Biology)

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