

Technical Data Sheet

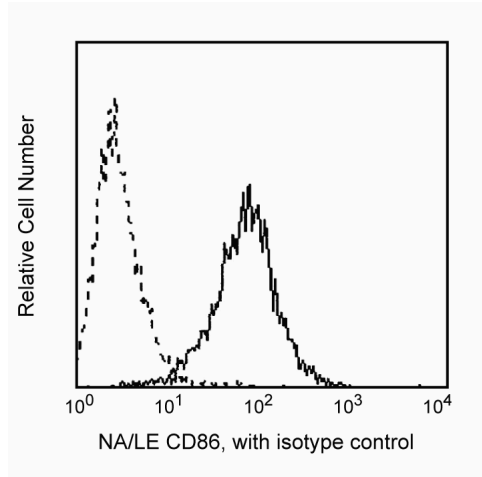
Purified NA/LE Mouse Anti-Human CD86

Product Information

Material Number:	555662
Alternate Name:	B70/B7-2
Size:	0.5 mg
Concentration:	1.0 mg/ml
Clone:	IT2.2
Isotype:	Mouse IgG2b, κ
Reactivity:	QC Testing: Human
Workshop:	VI CD86.8
Storage Buffer:	No azide/low endotoxin: Aqueous buffered solution containing no preservative, 0.2 μ m sterile filtered. Endotoxin level is ≤ 0.01 EU/ μ g (≤ 0.001 ng/ μ g) of protein as determined by the LAL assay.

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 Daudi Cells analyzed on a FACScan (BDIS, San Jose, CA)

Preparation and Storage

Store undiluted at 4°C.

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

This preparation contains no preservatives, thus it should be handled under aseptic conditions.

Application Notes

Application

Flow cytometry	Routinely Tested
Functional assay	Tested During Development

Suggested Companion Products

Catalog Number	Name	Size	Clone
555740	Purified Mouse IgG2b κ Isotype Control	0.1 mg	27-35
555988	FITC Goat Anti-Mouse IgG/IgM	0.5 mg	Polyclonal
555663	Purified Mouse Anti-Human CD86	0.1 mg	IT2.2

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Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. An isotype control should be used at the same concentration as the antibody of interest.
3. Please refer to www.bdbiosciences.com/pharming/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, Tedder TF. 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; 1995:703-705. (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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