

Technical Data Sheet

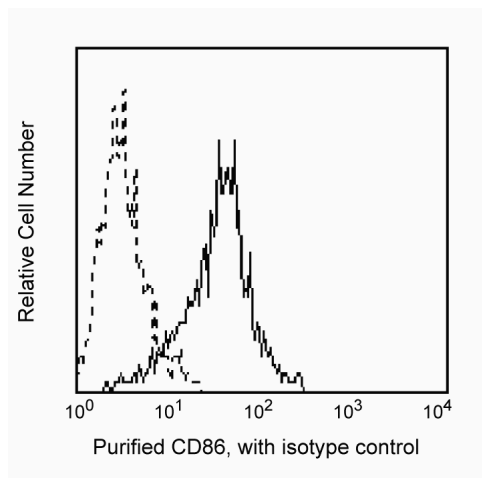
Purified Mouse Anti-Human CD86

Product Information

Material Number:	555663
Alternate Name:	B70/B7-2
Size:	0.1 mg
Concentration:	0.5 mg/ml
Clone:	IT2.2
Isotype:	Mouse IgG2b, κ
Reactivity:	QC Testing: Human
Workshop:	VI CD86.8
Storage Buffer:	Aqueous buffered solution containing $\leq 0.09\%$ 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 Daudi cell line analyzed by flow cytometry

Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.
Store undiluted at 4° C.

Application Notes

Application

Flow cytometry	Routinely Tested
Immunohistochemistry-frozen	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

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Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to www.bdbiosciences.com/pharming/en/protocols for technical protocols.
3. 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.

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)