

Technical Data Sheet

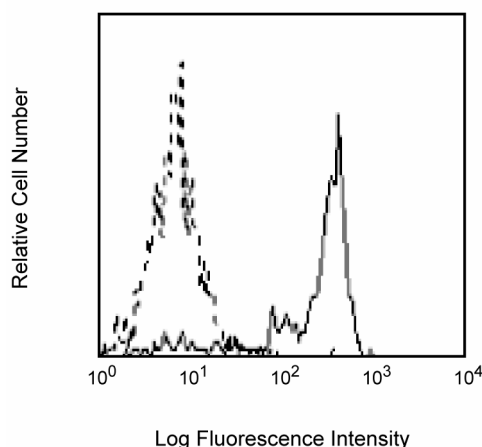
PE Mouse Anti-Human CD86

Product Information

Material Number:	557344
Alternate Name:	B7.2; B7-2; B-lymphocyte activation antigen B7-2; B70; BU63; CD28LG2; LAB72
Size:	50 tests
Vol. per Test:	20 µl
Clone:	2331 (FUN-1)
Isotype:	Mouse IgG1, κ
Reactivity:	Human
	QC Testing: Baboon or Rhesus or Cynomolgus
Workshop:	V B046, BP126
Storage Buffer:	Aqueous buffered solution containing BSA and ≤0.09% sodium azide.

Description

Clone FUN-1 reacts with the human form of CD86, the 80 kDa cell surface protein, B70/B7-2, found on monocytes, dendritic cells and on activated B cells. CD86 plays an important role as a costimulatory molecule during primary immune response. Clone FUN-1 also cross-reacts with a subset of peripheral blood monocytes of baboon and both rhesus and cynomolgus macaque monkeys. The staining pattern on monocytes is similar to that observed with peripheral blood monocytes from normal human donors.



Profile of anti-CD86 reactivity on peripheral blood monocytes of Rhesus macaque (Macaca mulatta) analyzed by flow cytometry.

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. 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
556650	PE Mouse IgG1, κ Isotype Control	50 tests	MOPC-21

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. 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.

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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. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

References

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. (Clone-specific)

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. (Clone-specific)

Yang XF, Chen Z, Wormsley SB. Nashville: American Society of Hematology; 1994. (Clone-specific)