

Technical Data Sheet

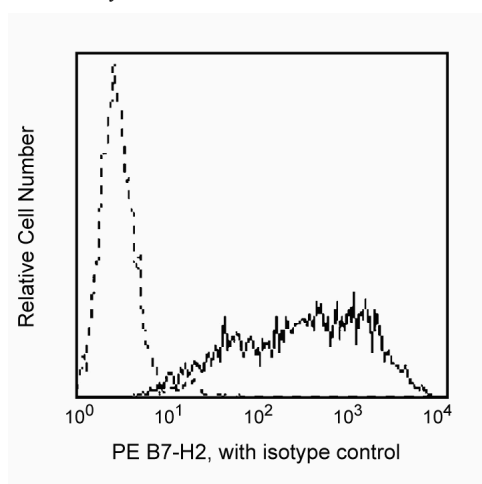
PE Mouse Anti-Human CD275

Product Information

Material Number:	552502
Alternate Name:	B7-H2
Size:	100 tests
Vol. per Test:	20 µl
Clone:	2D3/B7-H2
Isotype:	Mouse IgG2b, κ
Reactivity:	QC Testing: Human
Workshop:	NA
Storage Buffer:	Aqueous buffered solution containing BSA and ≤0.09% sodium azide.

Description

Reacts with a 302 amino acid cell surface protein termed B7-H2 (B-7 homologue 2). B7-H2 binds to a CD28-like receptor inducible costimulator (ICOS) and costimulates the proliferation and cytokine production of human T cells. It is weakly expressed on peripheral blood mononuclear cells, but it is expressed on monocyte-derived dendritic cells. This antibody could be useful in the study of dendritic cell development and/or costimulatory molecules.



Profile of B7-H2 expression on CHO-B7-H2 cells 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

Suggested Companion Products

Catalog Number	Name	Size	Clone
555743	PE Mouse IgG2b κ Isotype Control	100 tests	27-35

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.
4. For fluorochrome spectra and suitable instrument settings, please refer to our Fluorochrome Web Page at www.bdbiosciences.com/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.

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

References

Bretscher PA. A two-step, two-signal model for the primary activation of precursor helper T cells. *Proc Natl Acad Sci U S A*. 1999; 96(1):185-190. (Biology)

Dong H, Zhu G, Tamada K, Chen L. B7-H1, a third member of the B7 family, co-stimulates T-cell proliferation and interleukin-10 secretion. *Nat Med*. 1999; 5(12):1365-1369. (Biology)

Wang S, Zhu G, Chapoval AI, et al. Costimulation of T cells by B7-H2, a B7-like molecule that binds ICOS. *Blood*. 2000; 96(8):2808-2813. (Biology)