Technical Data Sheet

Purified Mouse Anti-Human CD275

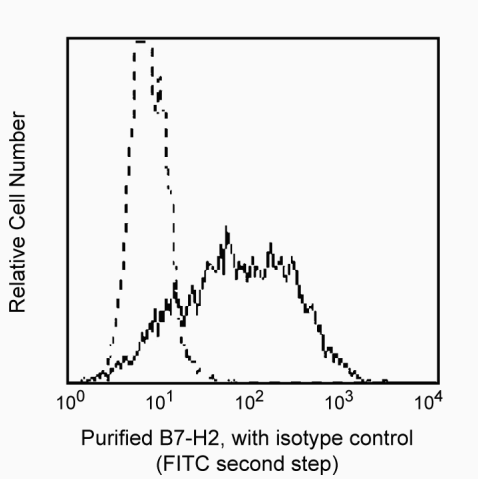
Product Information

Material Number:	**552501**
Alternate Name:	B7-H2
Size:	0.1 mg
Concentration:	0.5 mg/ml
Clone:	2D3/B7-H2
Isotype:	Mouse IgG2b, κ
Reactivity:	QC Testing: Human
Workshop:	NA
Storage Buffer:	Aqueous buffered solution containing ≤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.

This antibody is routinely tested by flow cytometric analysis. Other applications were tested at BD Biosciences Pharmingen during antibody development only or reported in the literature.



Profile of B7-H2 (2D3/B7-H2) expression on CHO-B7-H2 cells analyzed by flow cytometry. *Second step staining with Cat. No. 555988.*

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

Suggested Companion Products

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

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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/pharmingen/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

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)