

Technical Data Sheet

Biotin Mouse Anti-Rat CD86

Product Information

Material Number:	555017
Alternate Name:	B7-2
Size:	0.5 mg
Concentration:	0.5 mg/ml
Clone:	24F
Immunogen:	HTLV-1-transformed rat T-cell line Lewis-S1
Isotype:	Mouse (BALB/c) IgG1, κ
Reactivity:	QC Testing: Rat
Storage Buffer:	Aqueous buffered solution containing $\leq 0.09\%$ sodium azide.

Description

The 24F antibody reacts with CD86 (B7-2), a member of the Ig superfamily of transmembrane proteins. CD86, a ligand for CD28 and CD152 (CTLA-4), is one of the accessory molecules that plays an important role in T cell-B cell costimulatory interactions. CD86 is predominantly expressed on antigen-presenting cells. It can be upregulated on splenic B cells by in vitro polyclonal activation, such as LPS treatment. 24F mAb is reported to block the costimulatory function of rat CD86 and to immunoprecipitate CD86 from Lewis-S1 cell lysates.

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.

Preparation and Storage

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

The antibody was conjugated with biotin under optimum conditions, and unreacted biotin was 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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Recommended Assay Procedure:

Since this antigen is expressed at low density, it may be desirable to use a "bright" second-step reagent, such as Streptavidin-PE (Cat. No. 554061).

Suggested Companion Products

Catalog Number	Name	Size	Clone
554061	PE Streptavidin	0.5 mg	(none)
550615	Biotin Mouse IgG1 κ Isotype Control	0.25 mg	MOPC-31C

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

Bluestone JA. New perspectives of CD28-B7-mediated T cell costimulation. *Immunity*. 1995; 2(6):555-559.(Biology)
 Damoiseaux JG, Yagita H, Okumura K, van Breda Vriesman PJ. Costimulatory molecules CD80 and CD86 in the rat; tissue distribution and expression by antigen-presenting cells. *J Leukoc Biol*. 1998; 64(6):803-809.(Clone-specific: Immunohistochemistry)
 Maeda K, Sato T, Azuma M, Yagita H, Okumura K. Characterization of rat CD80 and CD86 by molecular cloning and mAb. *Int Immunol*. 1997; 9(7):993-1000. (Immunogen: (Co)-stimulation, Flow cytometry, Immunoprecipitation)

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