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Datasheet for 200-B08-N89

CD80 Phycoerythrin Antibody

Overview

Description:	Anti-CD80 (Armenian Hamster) Phycoerythrin Conjugated Monoclonal Antibody - 200-B08-N89
Item No.:	200-B08-N89
Size:	100 µg
Applications:	FC
Reactivity:	Mouse
Host Species:	Hamster Armenian

Product Details

Background:	Anti-CD80 antibody reacts with mouse CD80, also known as B7-1, a 55 kDa type I transmembrane protein ligand for CD152 (CTLA-4) and for CD28, a co-stimulatory receptor for the T cell receptor (TCR). CD28 also binds a second B7 ligand known as CD86 (B7-2). Both CD80 and CD86 are expressed on activated B cells and antigen-presenting cells. These ligands trigger CD28 signaling in concert with TCR activation to drive T cell proliferation, induce high-level expression of IL-2, impart resistance to apoptosis, and enhance T cell cytotoxicity. The interaction / co-stimulatory signaling between the B7 ligands and CD28 or CTLA-4 provides crucial communication between T cells and B cells or APCs to coordinate the adaptive immune response.
Synonyms:	T-lymphocyte activation antigen CD80, Activation B7-1 antigen, B7, CD80, Cd80
Host Species:	Hamster Armenian
Conjugate:	R-Phycoerythrin (RPE)
Clonality:	Monoclonal
Clone ID:	16-10A1
Format:	IgG
F/P Ratio:	1-2

Target Details

Gene Name:	Cd80

Reactivity:	Mouse
Immunogen:	Anti-CD80 Antibody (Monoclonal) was produced by repeated immunizations with CD80 antigen.
Purity/Specificity:	Phycoerythrin conjugated CD80 Monoclonal Antibody was purified from tissue culture supernatant via affinity chromatography and is directed against mouse CD80. Cross reactivity with CD80 from other sources has not been tested. Anti-CD80 is conjugated with PE under optimal conditions and the solution is free of unconjugated PE.
Relevant Links:	• UniProtKB - Q00609 • NCBI - NP_033985.3 • GeneID - 12519

Application Details

Tested Applications:	FC
Application Note:	Anti-CD80 is tested for FLOW and useful for Immunohistochemistry, Immunofluorescence, and Immunoprecipitation using mouse spleen cells, or an appropriate cell type (where indicated). Researchers should determine optimal titers for applications that are not stated.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
FC:	10 µL/10^6 cells (0.1 µg)
IF:	User Optimized
IHC:	User Optimized
IP:	User Optimized

Formulation

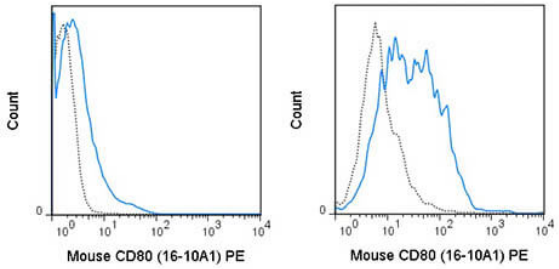
Physical State:	Liquid (sterile filtered)
Concentration:	0.2mg/mL Sufficient to run approximately 100 tests
Buffer:	0.01 M Sodium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.09% (w/v) Sodium Azide
Stabilizer:	0.1% Gelatin

Shipping & Handling

Shipping Condition:	Wet Ice

Storage Condition:	Store vial at 4° C prior to opening. Dilute only prior to immediate use. This product is stable at 4° C as an undiluted liquid. Use subdued lighting during handling and incubation of cells prior to analysis. Store reagent in the dark. DO NOT FREEZE.
Expiration:	Expiration date is six (6) months from date of receipt.

Images



Flow Cytometry
Flow Cytometry of anti-CD80 Phycoerythrin Conjugated Monoclonal Antibody. Cells: C57BL/6 mouse splenocytes. Stimulation: LPS for 3 days (right panel). Antibody: (Dotted Line) PE Armenian hamster IgG isotype control; (Solid Line) Phycoerythrin Anti-CD80 antibody using 0.125µg.

Disclaimer

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