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Datasheet for 200-302-N74

CD80 Fluorescein Antibody

Overview

Description:	Anti-CD80 (MOUSE) Fluorescein Conjugated Monoclonal Antibody - 200-302-N74
Item No.:	200-302-N74
Size:	500 µL
Applications:	FC
Reactivity:	Human
Host Species:	Mouse

Product Details

Background:	CD80, also known as B7-1, B7, and BB1, is a 60 kD single chain type I glycoprotein belonging to the immunoglobulin superfamily. CD80 is expressed on activated B and T cells, macrophages, and dendritic cells. CD80 binds to CD28 and CD152 (CTLA-4). Along with CD86, CD80 plays a critical role in regulation of T cell activation. The interaction of CD80 with CD28 provides a potent costimulatory signal for T cell activation through the CD3 complex, while its interaction with CTLA-4 provides an inhibitory signal for T cell activation.
Synonyms:	T-lymphocyte activation antigen CD80, Activation B7-1 antigen, BB1, CTLA-4 counter-receptor B7.1, B7, CD80, CD28LG, CD28LG1, LAB7
Host Species:	Mouse
Conjugate:	Fluorescein (FITC)
Clonality:	Monoclonal
Clone ID:	2D10
Format:	IgG1
F/P Ratio:	4-6

Target Details

Gene Name:	CD80
Reactivity:	Human

Immunogen:	Anti-CD80 Antibody (Monoclonal) was produced by repeated immunizations with CD80 antigen.
Purity/Specificity:	Fluorescein conjugated CD80 Monoclonal Antibody was purified from tissue culture supernatant via affinity chromatography and is directed against human CD80. Reactivity is observed against human CD80. Cross reactivity is observed with Rhesus. Reactivity with CD80 from other sources has not been tested. Anti-CD80 is conjugated with FITC under optimal conditions and the solution is free of unconjugated FITC.
Relevant Links:	• UniProtKB - P33681 • NCBI - NP_005182.1 • GeneID - 941

Application Details

Tested Applications:	FC
Application Note:	Anti-CD80 is tested for Flow Cytometry and is useful for Immunohistochemistry and Western Blot. 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:	5 uL/test/1x10e5 to 1x10e8 cells
IHC:	User Optimized
WB:	User Optimized
Other:	Expires: 12/10/2028

Formulation

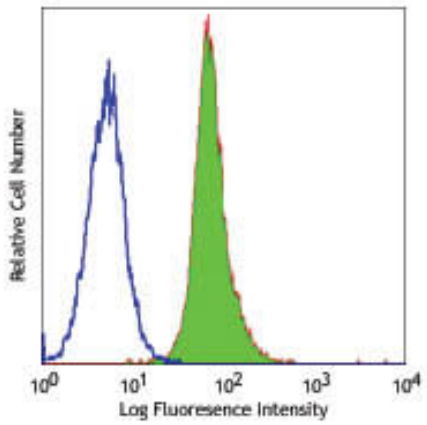
Physical State:	Liquid (sterile filtered)
Concentration:	0.4 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.09% (w/v) Sodium Azide
Stabilizer:	0.2% BSA (w/v)

Shipping & Handling

Shipping Condition:	Wet Ice

Storage Condition:	Store vial at 4° C prior to opening. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use. DO NOT FREEZE. This product is light sensitive.
Expiration:	Expiration date is six (6) months from date of receipt.

Images



Flow Cytometry
Flow Cytometry of Mouse anti-CD80 Fluorescein Conjugated Monoclonal Antibody. Cells: Human B-cell Burkitt's lymphoma cell line Daudi. Stimulation: none. Antibody: (Blue) FITC Mouse IgG1 isotype control; (Green) Fluorescein Anti-CD80 mouse antibody using 5 ul.

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