

Datasheet for 200-502-N90**CD86 Fluorescein Antibody****Overview**

Description:	Anti-CD86 (RAT) Fluorescein Conjugated Monoclonal Antibody - 200-502-N90
Item No.:	200-502-N90
Size:	500 µg
Applications:	FC
Reactivity:	Mouse
Host Species:	Rat

Product Details

Background:	Anti-CD86 reacts with mouse CD86, also known as B7-2, an 80 kDa cell surface protein which is a ligand for CD28, a co-stimulatory receptor for the T cell receptor (TCR). CD28 can also bind a second B7 ligand known as CD80 (B7-1). 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 provides crucial communication between T cells and B cells or APCs to coordinate the adaptive immune response. The GL-1 antibody may be used as a marker for CD86 expression on B cells, macrophages, and dendritic cells.
Synonyms:	T-lymphocyte activation antigen CD86, Activation B7-2 antigen, Early T-cell costimulatory molecule 1, ETC-1, CD86, Cd86
Host Species:	Rat
Conjugate:	Fluorescein (FITC)
Clonality:	Monoclonal
Clone ID:	GL-1
Format:	IgG2a
F/P Ratio:	2-8

Target Details

Gene Name:	Cd86
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Reactivity:	Mouse
Immunogen:	Anti-CD86 Antibody (Monoclonal) was produced by repeated immunizations with CD86 antigen.
Purity/Specificity:	Fluorescein conjugated CD86 Monoclonal Antibody was purified from tissue culture supernatant via affinity chromatography and is directed against mouse CD86. Cross reactivity with CD86 from other sources has not been tested. Anti-CD86 is conjugated with FITC under optimal conditions and the solution is free of unconjugated FITC.
Relevant Links:	• UniProtKB - P42082 • NCBI - NP_062261.3 • GeneID - 12524

Application Details

Tested Applications:	FC
Application Note:	Anti-CD86 is tested for FLOW and useful for Immunohistochemistry and Immunofluorescence 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 μ L/10 ⁶ cells (0.1 μ g)
IF:	User Optimized
IHC:	User Optimized

Formulation

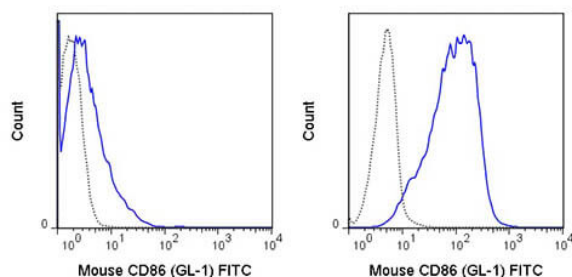
Physical State:	Liquid (sterile filtered)
Concentration:	0.5mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.09% (w/v) Sodium Azide
Stabilizer:	0.1% Gelatin

Shipping & Handling

Shipping Condition:	Wet Ice
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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-CD86 Fluorescein Conjugated Monoclonal Antibody. Cells: C57BL/6 splenocytes.
 Stimulation: LPS for 3 days (right panel). Antibody: (Dotted Line) FITC Rat IgG2a isotype control; (Solid Line) Fluorescein Anti-CD86 antibody using 0.125µg.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.