

**Datasheet for 200-B02-N89****CD80 Fluorescein Antibody****Overview**

|                      |                                                                                       |
|----------------------|---------------------------------------------------------------------------------------|
| <b>Description:</b>  | Anti-CD80 (Armenian Hamster) Fluorescein Conjugated Monoclonal Antibody - 200-B02-N89 |
| <b>Item No.:</b>     | 200-B02-N89                                                                           |
| <b>Size:</b>         | 500 µg                                                                                |
| <b>Applications:</b> | FC                                                                                    |
| <b>Reactivity:</b>   | Mouse                                                                                 |
| <b>Host Species:</b> | Hamster Armenian                                                                      |

**Product Details**

|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
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| <b>Background:</b>   | 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. |
| <b>Synonyms:</b>     | T-lymphocyte activation antigen CD80, Activation B7-1 antigen, B7, CD80, Cd80                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Host Species:</b> | Hamster Armenian                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Conjugate:</b>    | Fluorescein (FITC)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Clonality:</b>    | Monoclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Clone ID:</b>     | 16-10A1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Format:</b>       | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>F/P Ratio:</b>    | 2-8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

**Target Details**

|                   |      |
|-------------------|------|
| <b>Gene Name:</b> | Cd80 |
|-------------------|------|

|                            |                                                                                                                                                                                                                                                                                                                                           |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Reactivity:</b>         | Mouse                                                                                                                                                                                                                                                                                                                                     |
| <b>Immunogen:</b>          | Anti-CD80 Antibody (Monoclonal) was produced by repeated immunizations with CD80 antigen.                                                                                                                                                                                                                                                 |
| <b>Purity/Specificity:</b> | Fluorescein 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 FITC under optimal conditions and the solution is free of unconjugated FITC. |
| <b>Relevant Links:</b>     | <ul style="list-style-type: none"><li>• <a href="#">UniProtKB - Q00609</a></li><li>• <a href="#">NCBI - NP_033985.3</a></li><li>• <a href="#">GeneID - 12519</a></li></ul>                                                                                                                                                                |

## Application Details

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| <b>Tested Applications:</b> | FC                                                                                                                                                                                                                                                                       |
| <b>Application Note:</b>    | 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. |
| <b>Assay Dilutions:</b>     | All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.                                                                                                                                                                          |
| <b>FC:</b>                  | 10 $\mu$ L/10 <sup>6</sup> cells (0.1 $\mu$ g)                                                                                                                                                                                                                           |
| <b>IF:</b>                  | User Optimized                                                                                                                                                                                                                                                           |
| <b>IHC:</b>                 | User Optimized                                                                                                                                                                                                                                                           |
| <b>IP:</b>                  | User Optimized                                                                                                                                                                                                                                                           |

## Formulation

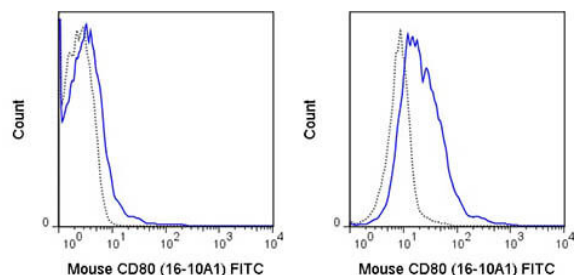
|                        |                                                         |
|------------------------|---------------------------------------------------------|
| <b>Physical State:</b> | Liquid (sterile filtered)                               |
| <b>Concentration:</b>  | 0.5mg/mL by UV absorbance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

## Shipping & Handling

|                            |         |
|----------------------------|---------|
| <b>Shipping Condition:</b> | Wet Ice |
|----------------------------|---------|

|                           |                                                                                                                                                                                                   |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Storage Condition:</b> | 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. |
| <b>Expiration:</b>        | Expiration date is six (6) months from date of receipt.                                                                                                                                           |

## Images



### Flow Cytometry

Flow Cytometry of anti-CD80 Fluorescein Conjugated Monoclonal Antibody. Cells: C57BL/6 splenocytes.

Stimulation: LPS for 3 days (right panel). Antibody: (Dotted Line) FITC Armenian Hamster IgG isotype control; (Solid Line) Fluorescein Anti-CD80 antibody using 0.25 µg.

## 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.