

## Product Information

Contents: Affinity Purified anti-human CD80 (B7-1)

Catalog Number: 14-0809

Sizes: 25 ug, 100 ug

Formulation: Phosphate buffer pH 7.2,  
150 mM NaCl, 0.09% NaN<sub>3</sub>

Storage Conditions: Store at 4°C.

Avoid repeated freeze/thaw cycles.

Clone: 2D10.4

Isotype: Mouse IgG1, κ

HLDA No.: VI B-CD80.1

### Available Formats of This Product

Cat. No.	Format	Excite (nm)	Emit (nm)	Reported Applications
11-0809	FITC anti-human CD80 (B7-1)	488	518	FC
12-0809	PE anti-human CD80 (B7-1)	488	575	FC
13-0809	Biotin anti-human CD80 (B7-1)	N/A	N/A	FC
14-0809	Affinity Purified anti-human CD80 (B7-1)	N/A	N/A	FC
15-0809	Phycoerythrin-Cy5 (PE-Cy5) anti-human CD80 (B7-1)	488	670	FC
16-0809	Functional Grade* Purified anti-human CD80 (B7-1)	N/A	N/A	FC

\*Functional Grade™ (FG™): Azide-free, sterile-filtered, and endotoxin < 0.001 ng/μg.  
Purified: Contains azide, not sterile-filtered, and not endotoxin tested.

## Description

The 2D10.4 monoclonal antibody reacts with human CD80 (B7-1), a 60 kDa member of the Ig superfamily. CD80 is expressed by activated B cells, macrophages and dendritic cells. In addition, activated T cells express this antigen. CD80 has high affinity for binding to two T cell surface antigens, CD28 and CD152 (CTLA-4). The interaction of CD28 and CD152 with CD80 is crucial in T-B cell communication leading to activation of T and B cells, respectively.

## Usage

For research use only, not for diagnostic or therapeutic use. The 2D10.4 antibody has been reported for use in flow cytometric analysis.

## Applications Tested

The 2D10.4 antibody has been tested by flow cytometric analysis of human peripheral blood leukocytes. This can be used at less than or equal to 1 μg per 100 μl blood (or per 1 million cells in 100 μl total staining volume). It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

## Related Products

- Cat. 11-0809 FITC anti-human CD80 (B7-1) (clone 2D10.4)
- Cat. 12-0809 PE anti-human CD80 (B7-1) (clone 2D10.4)
- Cat. 13-0809 Biotin anti-human CD80 (B7-1) (clone 2D10.4)
- Cat. 15-0809 Phycoerythrin-Cy5 (PE-Cy5) anti-human CD80 (B7-1) (clone 2D10.4)
- Cat. 16-0809 Functional Grade Purified anti-human CD80 (B7-1) (clone 2D10.4)
- Cat. 11-4011 FITC Anti-Mouse IgG
- Cat. 13-4013 Biotin Anti-Mouse IgG (clone Polyclonal)
- Cat. 11-4317 Streptavidin-FITC (Fluorescein isothiocyanate)

Cat. 12-4317 Streptavidin-PE (Phycoerythrin)  
Cat. 17-4317 Streptavidin Allophycocyanin (SA-APC)  
Cat. 14-4714 Affinity Purified Mouse IgG1, K Isotype Control

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#### References

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Kishimoto, T., A.E.G., von dem Borne, et al. eds. (1998). Leucocyte Typing VI: White Cell Differentiation Antigens. Garland Publishing Inc. London.

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