

Product Information

Contents: Functional Grade Purified anti-human CD80 (B7-1)

Catalog Number: 16-0809

Sizes: 50 ug, 500 ug

Formulation: Phosphate buffer pH 7.2,
150 mM NaCl, No NaN₃

Storage Conditions: Store at 4°C.

Avoid repeated freeze/thaw cycles.

KEEP CONTENT STERILE.

Endotoxin Level: Less than 0.001 ng/ug antibody, as determined by the LAL assay.

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. 14-0809 Affinity Purified anti-human CD80 (B7-1) (clone 2D10.4)
- Cat. 15-0809 Phycoerythrin-Cy5 (PE-Cy5) 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. 16-4714 Functional Grade Purified Mouse IgG1, K Isotype Control

References

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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