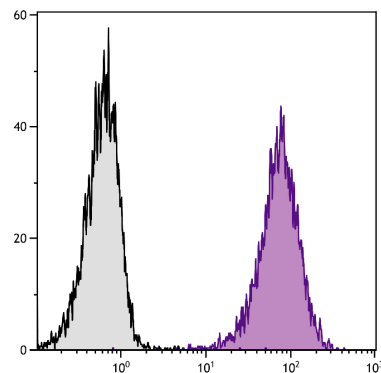




Rat Anti-Mouse CD80

Cat. No.	Format	Size
1730-01	Purified (UNLB)	0.5 mg
1730-02	Fluorescein (FITC)	0.5 mg
1730-08	Biotin (BIOT)	0.5 mg
1730-09	R-phycoerythrin (PE)	0.1 mg
1730-09L	R-phycoerythrin (PE)	0.2 mg
1730-11	Allophycocyanin (APC)	0.1 mg
1730-13	Spectral Red® (SPRD)	0.1 mg
1730-14	Low Endotoxin, Azide-Free (LE/AF)	0.5 mg



DBA/2 mouse mastocytoma cell line P815 and mB7.1-Ig transfected P815 cells were stained with Rat Anti-Mouse CD80-APC (SB Cat. No. 1730-11).

Overview

Clone	1G10
Isotype	Rat (Lewis) IgG _{2aκ}
Immunogen	Activated 5C2 cells
Specificity	Mouse CD80; Mr 52-55 kDa
Alternate Name(s)	B7-1, Ly-53

Description

CD80 (B7-1) is a type I transmembrane glycoprotein and a member of the immunoglobulin superfamily of cell surface receptors. It is constitutively expressed by dendritic cells, monocytes, and peritoneal macrophages. Expression of CD80 on B cells is upregulated after activation by various means including stimulation by LPS, IL-4, and surface Ig receptor crosslinking with peak expression occurring between 48 and 72 hours post-activation. The interaction of CD80 with its ligands, CD28 and CD152 (CTLA-4), provides a potent costimulatory signal for T cells activated through the CD3/T cell receptor complex. The monoclonal antibody 1G10 blocks binding of CTLA-4 to CD80 but it does not block stimulation of T cells by natural antigen-presenting cells.

Applications

FC – Quality tested ¹⁻¹²
 IP – Reported in literature ²
 Block – Reported in literature ¹⁻³

Working Dilutions

Flow Cytometry	FITC and BIOT conjugates	≤ 1 μg/10 ⁶ cells
	PE, APC, and SPRD conjugates	≤ 0.2 μg/10 ⁶ cells
For flow cytometry, the suggested use of these reagents is in a final volume of 100 μL		

Other Applications Since applications vary, you should determine the optimum working dilution for the product that is appropriate for your specific need.

For Research Use Only. Not for Diagnostic or Therapeutic Use.

Handling and Storage

- The purified (UNLB) antibody is supplied as 0.5 mg of purified immunoglobulin in 1.0 mL of borate buffered saline, pH 8.2. *No preservatives or amine-containing buffer salts added.* Store at 2-8°C.
- The fluorescein (FITC) conjugate is supplied as 0.5 mg in 1.0 mL of PBS/NaN₃. Store at 2-8°C.
- The biotin (BIOT) conjugate is supplied as 0.5 mg in 1.0 mL of PBS/NaN₃. Store at 2-8°C.
- The R-phycoerythrin (PE) conjugate is supplied as 0.1 mg in 1.0 mL or 0.2 mg in 2.0 mL of PBS/NaN₃ and a stabilizing agent. Store at 2-8°C. **Do not freeze!**
- The allophycocyanin (APC) conjugate is supplied as 0.1 mg in 1.0 mL of PBS/NaN₃ and a stabilizing agent. Store at 2-8°C. **Do not freeze!**
- The Spectral Red[®] (SPRD) conjugate is supplied as 0.1 mg in 1.0 mL of PBS/NaN₃ and a stabilizing agent. Store at 2-8°C. **Do not freeze!**
- The low endotoxin, azide-free (LE/AF) antibody is supplied as 0.5 mg of purified immunoglobulin in 1.0 mL of PBS. **Aliquot and store at or below -20°C.**
- Protect fluorochrome-conjugated forms from light. Reagents are stable for the period shown on the label if stored as directed.

Warning

Some reagents contain sodium azide. Please refer to product specific (M)SDS.

References

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11. Grodeland G, Mjaaland S, Roux KH, Fredriksen AB, Bogen B. DNA vaccine that targets hemagglutinin to MHC class II molecules rapidly induces antibody-mediated protection against influenza. *J Immunol.* 2013;191:3221-31. (FC)
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Spectral Red[®] is a PE/CY5 tandem conjugate.

Cy[®] is a registered trademark of GE Healthcare.