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Product datasheet for AM31878RP-L

Cd80 Rat Monoclonal Antibody [Clone ID: RMMP-1]

Product data:

Product Type:	Primary Antibodies
Clone Name:	RMMP-1
Applications:	FC
Recommended Dilution:	**Flow Cytometry** (See Protocols).
Reactivity:	Mouse
Host:	Rat
Isotype:	IgG2a
Clonality:	Monoclonal
Specificity:	This antibody recognises the murine CD80 cell surface protein, also known as B7-1.
Formulation:	PBS containing 0.09% Sodium Azide as preservative and EIA grade BSA to bring total protein concentration to 4-5 mg/ml State: Purified State: Liquid purified IgG fraction Label: R-Phycoerythrin (R-PE)
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C. **DO NOT FREEZE!** This product is photosensitive and should be protected from light.
Stability:	Shelf life: one year from despatch.
Gene Name:	CD80 antigen
Database Link:	Entrez Gene 12519 Mouse Q00609

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Background: CD80 is a member of the Ig superfamily, along with CD86 (B7-2), participates in T cell costimulation via interactions with CD28 and CTLA-4. CD80 is constitutively expressed on dendritic cells, monocytes, and peritoneal macrophages; and it is inducible on B cells by various means, including activation by LPS, IL-4, and the cross-linking of surface Ig. Expression of CD80 is greatly enhanced on splenic B cells following activation by LPS, with peak expression occurring between 48 and 72 hours. It has been reported that activation of purified B cells with LPS can induce CD80 expression in as few as 18 hours.

Synonyms: CD28LG, CD28LG1, LAB7, BB1, B7.1, B7-1

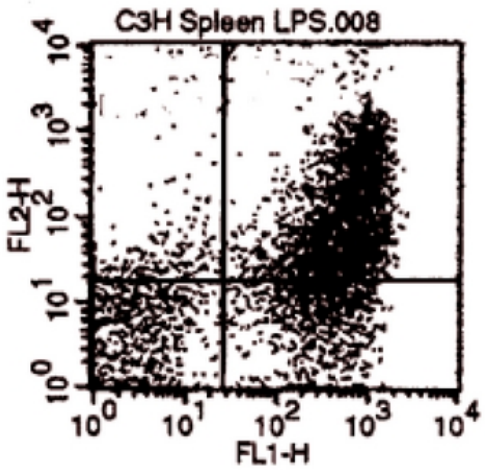
Note: Protocol: **FLOW CYTOMETRY ANALYSIS:**

Method:
1. Prepare a cell suspension in media A. For cell preparations, deplete the red blood cell population with Lympholyte®-M cell separation medium.
2. Wash 2 times.
3. Resuspend the cells to a concentration of 2x10e7 cells/ml in media A. Add 50 µl of this suspension to each tube (each tube will then contain 1x10e6 cells, representing 1 test).
4. To each tube, add ~1.0 µg* of AM31878RP-N or AM31878RP-L per 1x10e6 cells.
5. Vortex the tubes to ensure thorough mixing of antibody and cells.
6. Incubate the tubes at 4°C for 30 minutes.
(It is recommended that the tubes are protected from light since most fluorochromes are light sensitive).
7. Wash 2 times at 4°C.
8. Resuspend the cell pellet in 50 µl ice cold media B.
9. Transfer to suitable tubes for flow cytometric analysis containing 15 µl of propidium iodide at 0.5 mg/ml in PBS. This stains dead cells by intercalating in DNA.

Media:
A. Phosphate buffered saline (pH 7.2) + 5% normal serum of host species + sodium azide (100 µl of 2M sodium azide in 100 mls).
B. Phosphate buffered saline (pH 7.2) + 0.5% Bovine serum albumin + sodium azide (100 µl of 2M sodium azide in 100 mls).

Results:
Tissue Distribution by Flow Cytometry Analysis:
Mouse Strain: C3H
Cell Concentration : 1x10e6 cells per test
Antibody Concentration Used: 1.0 µg/106 cells
Isotypic Control: PE Rat IgG2a

Product images:



Cell Type: Spleen