Datasheet for ABIN302084

# anti-CD86 antibody

4 Images | 7 Publications

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## Overview

| | |
|---|---|
| Quantity: | 0.1 mg |
| Target: | CD86 |
| Reactivity: | Human |
| Host: | Mouse |
| Clonality: | Monoclonal |
| Conjugate: | This CD86 antibody is un-conjugated |
| Application: | Flow Cytometry (FACS), Western Blotting (WB), Immunoprecipitation (IP), Immunohistochemistry (Frozen Sections) (IHC (fro)) |

## Product Details

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|---|---|
| Immunogen: | B-lymphoblastoid cell line ARH 77 |
| Clone: | BU63 |
| Isotype: | IgG1 |
| Specificity: | The mouse monoclonal antibody BU63 reacts with an extracellular epitope of CD86 (B7-2), a 70 kDa type I transmembrane glycoprotein of immunoglobulin supergene family, expressed on professional antigen-presenting cells, such as dendritic cells, macrophages or activated B lymphocytes. |
| Cross-Reactivity (Details): | Human, Other not determined |
| Purification: | Purified by protein-A affinity chromatography. |
| Purity: | > 95 % (by SDS-PAGE) |

 

## Target Details

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| Target: | CD86 |
| Alternative Name: | CD86 (CD86 Products) |
| Background: | CD86 Molecule,CD80 (B7-1) and CD86 (B7-2) are ligands of T cell critical costimulatory molecule CD28 and of an inhibitory receptor CTLA-4 (CD152). The both B7 Molecules are expressed on professional antigen-presenting cells and are essential for T cell activation, the both molecules can also substitute for each other in this process. The question what are the differences in CD80 and CD86 competency has not been fully elucidated yet, there are still conflicts in results about their respective roles in initiation or sustaining of the T cell immune response.,B7-2, FUN-1, LAB72 |
| Gene ID: | 942 |
| UniProt: | P42081 |
| Pathways: | TCR Signaling, Fc-epsilon Receptor Signaling Pathway, EGFR Signaling Pathway, Neurotrophin Signaling Pathway, Activation of Innate immune Response, Cellular Response to Molecule of Bacterial Origin, Positive Regulation of Immune Effector Process, Activated T Cell Proliferation |

## Application Details

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| Application Notes: | Flow cytometry: Recommended dilution: 5 µg/mL. |
| Restrictions: | For Research Use only |

## Handling

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|---|---|
| Concentration: | 1 mg/mL |
| Buffer: | Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide |
| Preservative: | Sodium azide |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
| Handling Advice: | **Do not freeze.** |
| Storage: | 4 °C |
| Storage Comment: | Store at 2-8°C. Do not freeze. |

## Publications

Product cited in:

Hovden, Karlsen, Jonsson, Aarstad, Appel: "Maturation of monocyte derived dendritic cells with OK432 boosts IL-12p70 secretion and conveys strong T-cell responses." in: **BMC immunology**, Vol. 12, pp. 2, (2011) (PubMed).

Kolar, Mehta, Pelayo, Capra: "A novel human B cell subpopulation representing the initial germinal center population to express AID." in: **Blood**, Vol. 109, Issue 6, pp. 2545-52, (2007) ( PubMed).

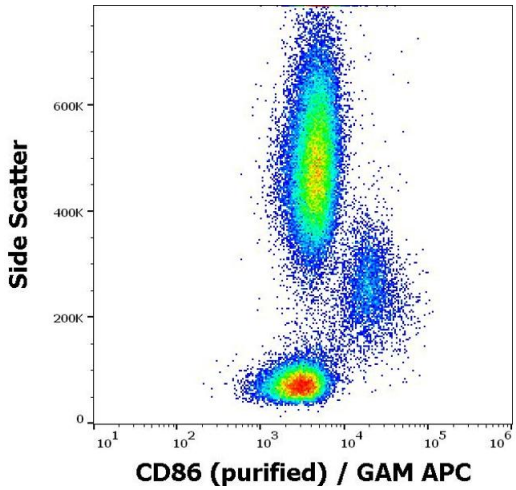
Chan, Baird, Mercer, Fleming: "Maturation and function of human dendritic cells are inhibited by orf virus-encoded interleukin-10." in: **The Journal of general virology**, Vol. 87, Issue Pt 11, pp. 3177-81, (2006) (PubMed).

Zhan, Towler, Calder: "The immunomodulatory role of human conjunctival epithelial cells." in: **Investigative ophthalmology & visual science**, Vol. 44, Issue 9, pp. 3906-10, (2003) (PubMed).

Mauri, Wyss-Coray, Gallati, Pichler: "Antigen-presenting T cells induce the development of cytotoxic CD4+ T cells. I. Involvement of the CD80-CD28 adhesion molecules." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 155, Issue 1, pp. 118-27, (1995) (PubMed).

There are more publications referencing this product on: Product page

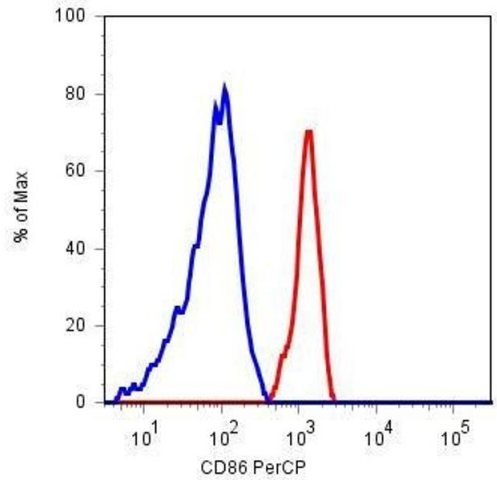
## Images




**Flow Cytometry**

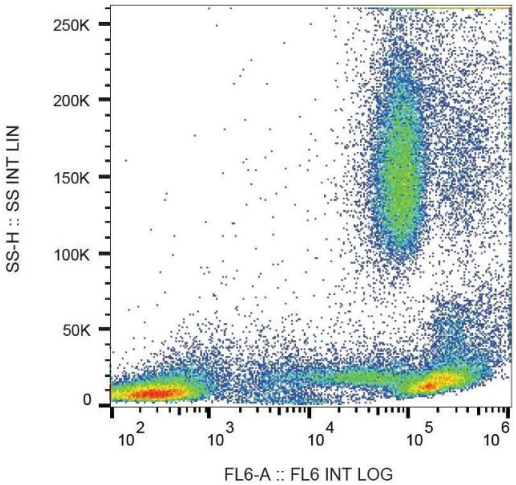
**Image 1.** Flow cytometry surface staining pattern of human peripheral blood stained using anti-human CD86 (BU63) purified antibody (concentration in sample 3 µg/mL) GAM APC.




**Flow Cytometry**

**Image 2.** Surface staining of human peripheral blood cells with anti-CD86 (BU63) PerCP (monocyte gate).




**Flow Cytometry**

**Image 3.** Surface staining of human peripheral blood with anti-human CD44 (MEM-85) purified / GAM-APC.

Please check the product details page for more images. Overall 4 images are available for ABIN302084.