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# anti-CD86 antibody

3 Images



Publications



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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)), Functional Studies (Func)	

### **Product Details**

Immunogen:	B-lymphoblastoid cell line ARH 77
Clone:	BU63
Isotype:	lgG1
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)

## Endotoxin Level: Endotoxin level is less than 0.01 EU/µg of the protein, as determined by the LAL test. **Target Details** 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** Application Notes: Functional application: The antibody BU63 blocks mixed lymphocyte reaction (MLR) and binding of soluble CTLA-4 (CD152)-mulg fusion protein to CD86 (B7-2). Flow cytometry: Recommended dilution: 5 µg/mL. Restrictions: For Research Use only Handling Concentration: 1 mg/mL Buffer: Phosphate buffered saline (PBS), pH 7.4 Preservative: Azide free 4°C Storage: Storage Comment: Store at 2-8°C. Do not freeze.

**Product Details** 

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).

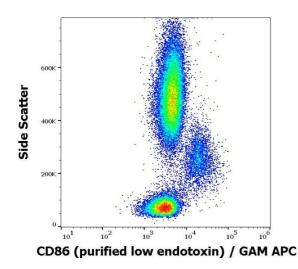
Chan, Baird, Mercer, Fleming: "Maturation and function of human dendritic cells are inhibited by orf virus-encoded interleukin-10." in: **The Journal of general virology**, Vol. 87, Issue Pt 11, pp. 3177-81, (2006) (PubMed).

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).

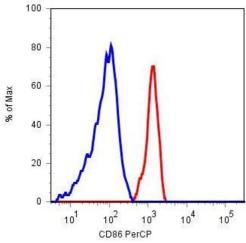
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### **Images**



### **Flow Cytometry**

**Image 1.** Flow cytometry surface staining pattern of human peripheral blood stained using anti-human CD86 (BU63) purified antibody (low endotoxin, concentration in sample 3  $\mu$ g/mL) GAM APC.



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### **Flow Cytometry**

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

### **Flow Cytometry**

**Image 3.** Separation of human monocytes (red-filled) from lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD86 (BU63) purified antibody (low endotoxin, concentration in sample 3 µg/mL) GAM APC.