Datasheet for ABIN302058

anti-CD86 antibody (PerCP)

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Overview

Quantity:	100 tests
Target:	CD86
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD86 antibody is conjugated to PerCP
Application:	Flow Cytometry (FACS)

Product Details

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 antibody is conjugated with activated Peridinin-Chlorophyll Protein (PerCP) under optimum conditions and unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.

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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:	Flow cytometry: The reagent is designed for analysis of human blood cells using 10 µL reagent / 100 µL of whole blood or 10^6 cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests.
Comment:	The purified antibody is conjugated with Peridinin-chlorophyll-protein complex (PerCP) under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is necessary.
Restrictions:	For Research Use only

Handling

Reconstitution:	No reconstitution is necessary.
Buffer:	Stabilizing 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.**

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Handling

	Avoid prolonged exposure to light.
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Protect from prolonged exposure to light. 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

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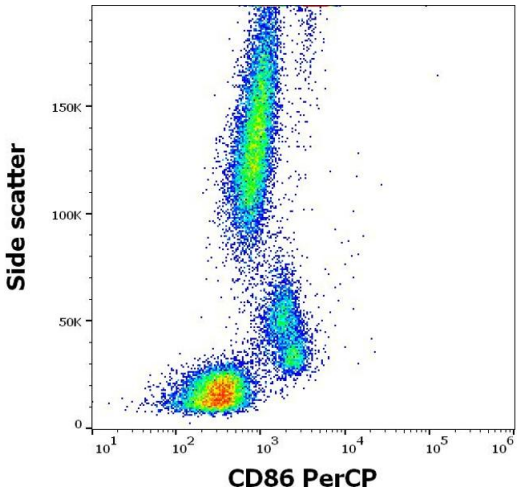
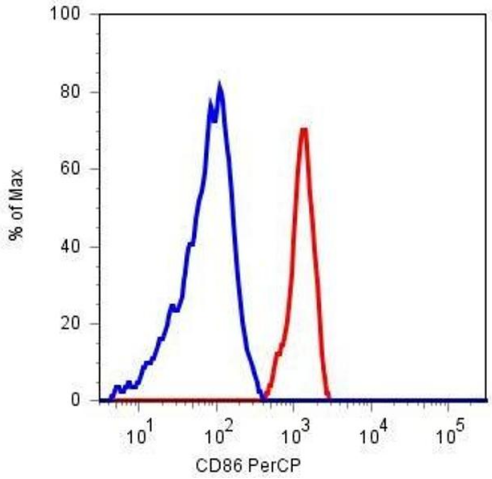


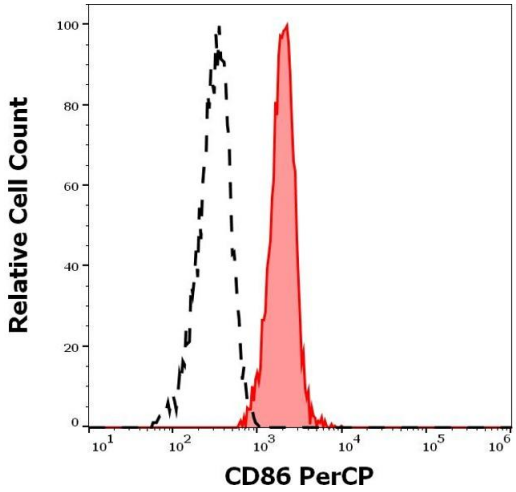
Flow Cytometry

Image 1. Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD86 (Bu63) PerCP antibody (10 µL reagent / 100 µL of peripheral whole blood).



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 CD86 positive monocytes (red-filled) from lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD86 (Bu63) PerCP antibody (10 µL reagent / 100 µL of peripheral whole blood).

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