Datasheet for ABIN2749172

anti-Macrophage Mannose Receptor 1 antibody (PE)

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Overview

Quantity:	100 tests
Target:	Macrophage Mannose Receptor 1 (MRC1)
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Macrophage Mannose Receptor 1 antibody is conjugated to PE
Application:	Flow Cytometry (FACS)

Product Details

Immunogen:	Purified human mannose receptor
Clone:	15-2
Isotype:	IgG1 kappa
Specificity:	The mouse monoclonal antibody 15-2 (also known as MR15-2) recognizes an extracellular epitope of CD206 (macrophage mannose receptor, MMR), a 162-175 kDa type I transmembrane protein expressed mainly on macrophages, dendritic cells and hepatic or lymphatic endothelial cells, but not on monocytes.
Cross-Reactivity (Details):	Human
Purification:	Purified antibody is conjugated with R-phycoerythrin (PE) under optimum conditions. Unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.

Target Details

Target:	Macrophage Mannose Receptor 1 (MRC1)
Alternative Name:	CD206 (MRC1 Products)
Background:	Mannose receptor C-type 1,CD206 (macrophage mannose receptor, MMR), also known as mannose receptor C1 (MRC1), is a type I transmembrane glycoprotein serving as pattern recognition receptor for carbogydrate groups on the surface of bacteria, fungi and other pathogens. Expressed mainly on tissue macrophages and dendritic cells, CD206 mediates endocytosis of these pathogens and presentation of their antigens to the adaptive immune system. CD206 can also be detected in a soluble form in human plasma and is elevated in patients with acute sepsis.,MMR, MRC1, CLEC13DL
Gene ID:	4360
UniProt:	P22897

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 R-Phycoerythrin (PE) 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

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.
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.

Publications

Product cited in:	Sindrilaru, Peters, Wieschalka, Baican, Baican, Peter, Hainzl, Schatz, Qi, Schlecht, Weiss,

Publications

Wlaschek, Sunderkötter, Scharffetter-Kochanek: "An unrestrained proinflammatory M1 macrophage population induced by iron impairs wound healing in humans and mice." in: **The Journal of clinical investigation**, Vol. 121, Issue 3, pp. 985-97, (2011) (PubMed).

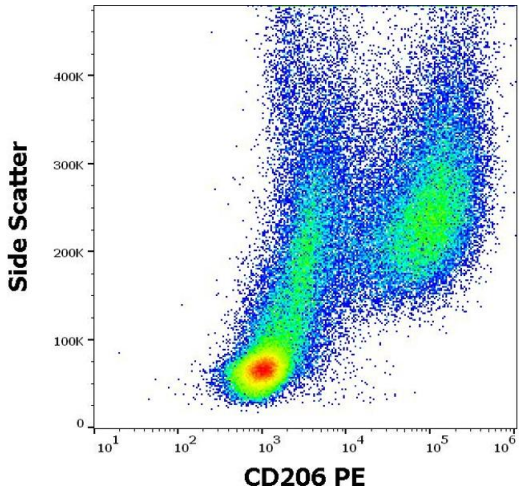
Shan, Klasse, Banerjee, Dey, Iyer, Dionisio, Charles, Campbell-Gardener, Olson, Sanders, Moore: " HIV-1 gp120 mannoses induce immunosuppressive responses from dendritic cells." in: **PLoS pathogens**, Vol. 3, Issue 11, pp. e169, (2007) (PubMed).

Sturge, Todd, Kogianni, McCarthy, Isacke: "Mannose receptor regulation of macrophage cell migration." in: **Journal of leukocyte biology**, Vol. 82, Issue 3, pp. 585-93, (2007) (PubMed).

Torrelles, Azad, Schlesinger: "Fine discrimination in the recognition of individual species of phosphatidyl-myo-inositol mannosides from Mycobacterium tuberculosis by C-type lectin pattern recognition receptors." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 177, Issue 3, pp. 1805-16, (2006) (PubMed).

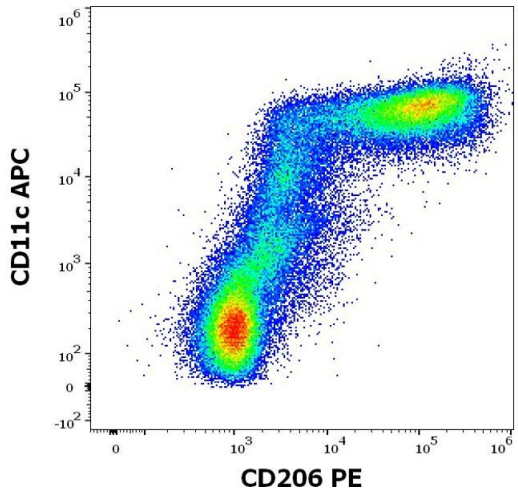
Chang, Hsu, Lin, Chio, Chiu, Chen, Lin, Hsieh: "Modulation of macrophage differentiation and activation by decoy receptor 3." in: **Journal of leukocyte biology**, Vol. 75, Issue 3, pp. 486-94, (2004) (PubMed).

Images



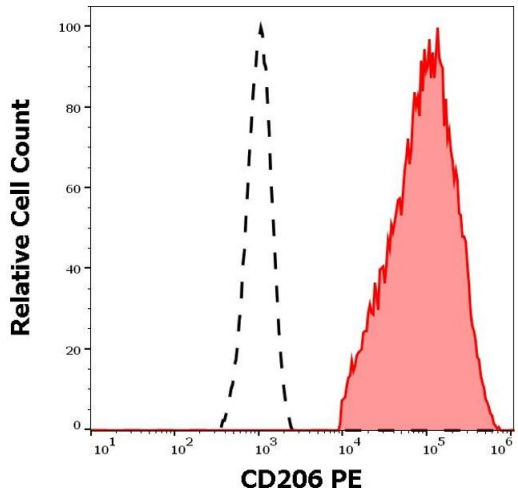
Flow Cytometry

Image 1. Flow cytometry surface staining pattern of human stimulated (GM-CSF + IL-4) peripheral blood mononuclear cells stained using anti-human CD206 (15-2) PE antibody (10 µL reagent per milion cells in 100 µL of cell suspension).



Flow Cytometry

Image 2. Flow cytometry multicolor surface staining pattern of human stimulated (GM-CSF + IL-4) peripheral blood mononuclear cells stained using anti-human CD206 (15-2) PE antibody (10 µL reagent per milion cells in 100 µL of cell suspension) and anti-human CD11c (BU15) APC antibody (10 µL reagent per milion cells in 100 µL of cell suspension).



Flow Cytometry

Image 3. Separation of human CD206 positive CD11c positive dendritic cells differentiated upon monocyte stimulation (GM-CSF + IL-4) (red-filled) from non-stimulated lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of human stimulated (GM-CSF + IL-4) peripheral blood mononuclear cells stained using anti-human CD206 (15-2) PE antibody (10 µL reagent / 100 µL of peripheral whole blood).