

Datasheet for ABIN2749170

anti-Macrophage Mannose Receptor 1 antibody**3** Images**5** Publications[Go to Product page](#)

Overview

Quantity:	0.1 mg
Target:	Macrophage Mannose Receptor 1 (MRC1)
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Macrophage Mannose Receptor 1 antibody is un-conjugated
Application:	Flow Cytometry (FACS), Western Blotting (WB), Immunoprecipitation (IP), Immunocytochemistry (ICC), Immunohistochemistry (Frozen Sections) (IHC (fro))

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 by protein-A affinity chromatography.
Purity:	> 95 % (by SDS-PAGE)

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 carboghydrate 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: Recommended dilution: 1-4 µg/mL. Western blotting: Recommended dilution: 1-2 µg/mL, non-reducing conditions.
Restrictions:	For Research Use only

Handling

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.
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Do not freeze.

Publications

Product cited in:	Sindrilaru, Peters, Wieschalka, Baican, Baican, Peter, Hainzl, Schatz, Qi, Schlecht, Weiss, 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).
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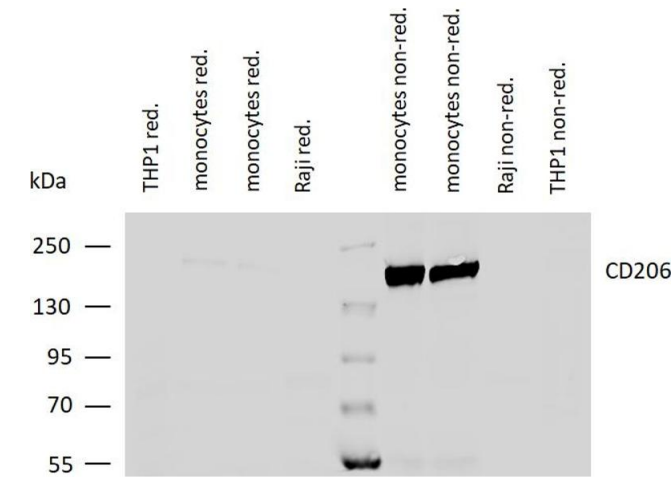
Shan, Klasse, Banerjee, Dey, Iyer, Dionisio, Charles, Campbell-Gardener, Olson, Sanders, Moore: " HIV-1 gp120 mannoses induce immunosuppressive responses from dendritic cells." in: **PLoS pathogens**, Vol. 3, Issue 11, pp. e169, (2007) ([PubMed](#)).

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 mannoses 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](#)).

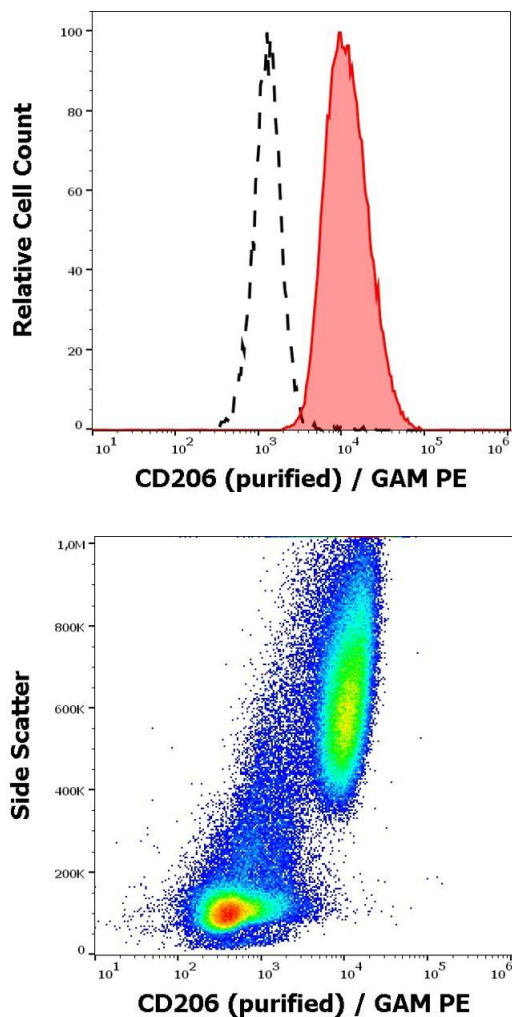
Chang, Hsu, Lin, Chio, Chiu, Chen, Lin, Hsieh: "Modulation of macrophage differentiation and activation by decoy receptor 3." in: **Journal of leukocyte biology**, Vol. 75, Issue 3, pp. 486-94, (2004) ([PubMed](#)).

Images



Western Blotting

Image 1. Western blotting analysis of human CD206 using mouse monoclonal antibody 15-2 on lysates of differentiated monocytes (two batches), and on THP-1 and Raji cells (negative controls) under reducing and non-reducing conditions. Nitrocellulose membrane was probed with 2 µg/mL of mouse monoclonal antibody followed by IRDye800-conjugated anti-mouse secondary antibody. CD206 was detected around 170 kDa.



Flow Cytometry

Image 2. Separation of human CD206 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) purified antibody (concentration in sample 9 $\mu\text{g/mL}$), GAM PE.

Flow Cytometry

Image 3. Flow cytometry surface staining pattern of human stimulated (GM-CSF + IL-4) peripheral blood mononuclear cells stained using anti-human CD206 (15-2) purified antibody (concentration in sample 9 $\mu\text{g/mL}$), GAM PE.