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Datasheet for ABIN2749171 anti-Macrophage Mannose Receptor 1 antibody

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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)), Functional Studies (Func)

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)

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Product Details

Endotoxin Level:

Endotoxin level is less than 0.01 EU/ μ g of the protein, as determined by the LAL test.

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:	Functional application: Blocking. Flow cytometry: Recommended dilution: 1-4 µg/mL
Restrictions:	For Research Use only
Handling	
Concentration:	1 mg/mL
Buffer:	Phosphate buffered saline (PBS), pH 7.4
Preservative:	Azide free
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: Th

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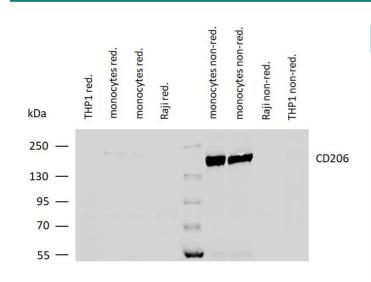
Shan, Klasse, Banerjee, Dey, Iyer, Dionisio, Charles, Campbell-Gardener, Olson, Sanders, Moore: " HIV-1 gp120 mannoses induce immunosuppressive responses from dendritic cells." in: **PLoS pathogens**, Vol. 3, Issue 11, pp. e169, (2007) (PubMed).

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 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).

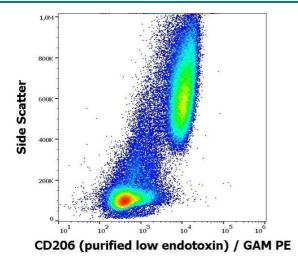
Images

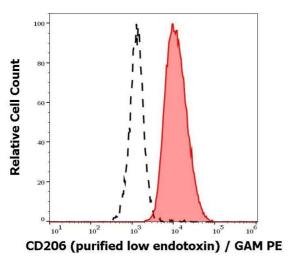


Western Blotting

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.

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Flow Cytometry

Image 2. Flow cytometry surface staining pattern of human human stimulated (GM-CSF + IL-4) peripheral blood mononuclear cells stained using anti-human CD206 (15-2) purified antibody (low endotoxin, concentration in sample 9 μ g/ml), GAM PE.

Flow Cytometry

Image 3. 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 (low endotoxin, concentration in sample 9 μg/mL), GAM PE.

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