



A6-782-T100

Monoclonal Antibody to CD206 Alexa Fluor® 647 conjugated (100 tests)

Clone:	15-2
Isotype:	Mouse IgG1
Specificity:	The mouse monoclonal antibody 15-2 (also known as MR15-2) recognizes 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. HLDA VII; WS Code 70802
Regulatory Status:	RUO
Immunogen:	Purified human mannose receptor
Species Reactivity:	Human
Preparation:	The purified antibody is conjugated with Fluorescein isothiocyanate (FITC) under optimum conditions. The reagent is free of unconjugated FITC and adjusted for direct use. No reconstitution is necessary.
Storage Buffer:	The reagent is provided in stabilizing phosphate buffered saline (PBS) solution containing 15mM sodium azide.
Storage / Stability:	Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light. Do not use after expiration date stamped on vial label.
Usage:	The reagent is designed for Flow Cytometry analysis of human blood cells using 4 µl reagent / 100 µl of whole blood or 10 ⁶ cells in a suspension. The content of a vial (0.4 ml) is sufficient for 100 tests.
Expiration:	See vial label
Lot Number:	See vial label
Background:	CD206 (macrophage mannose receptor, MMR), also known as mannose receptor C1 (MRC1), is a type I transmembrane glycoprotein serving as pattern recognition receptor for carbohydrate 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.

For laboratory research only, not for drug, diagnostic or other use.

**Antibodies****References:**

*Sindrilaru A, Peters T, Wieschalka S, Baican C, Baican A, Peter H, Hainzl A, Schatz S, Qi Y, Schlecht A, Weiss JM, Wlaschek M, Sunderkötter C, Scharffetter-Kochanek K: An unrestrained proinflammatory M1 macrophage population induced by iron impairs wound healing in humans and mice. *J Clin Invest.* 2011 Mar;121(3):985-97.

*Torrelles JB, Azad AK, Schlesinger LS: Fine discrimination in the recognition of individual species of phosphatidyl-myo-inositol mannosides from *Mycobacterium tuberculosis* by C-type lectin pattern recognition receptors. *J Immunol.* 2006 Aug 1;177(3):1805-16.

*Sturge J, Todd SK, Kogianni G, McCarthy A, Isacke CM: Mannose receptor regulation of macrophage cell migration. *J Leukoc Biol.* 2007 Sep;82(3):585-93.

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*Shan M, Klasse PJ, Banerjee K, Dey AK, Iyer SP, Dionisio R, Charles D, Campbell-Gardener L, Olson WC, Sanders RW, Moore JP: HIV-1 gp120 mannoses induce immunosuppressive responses from dendritic cells. *PLoS Pathog.* 2007 Nov;3(11):e169.

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