Datasheet for ABIN775717

anti-CD163 antibody (PE)

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Overview

Quantity:	100 tests
Target:	CD163
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD163 antibody is conjugated to PE
Application:	Flow Cytometry (FACS)

Product Details

Immunogen:	Hairy cell leukemia cells
Clone:	GHI-61
Isotype:	IgG1 kappa
Specificity:	The mouse monoclonal antibody GHI/61 recognizes an extracellular epitope CD163, an approximately 130 kDa high affinity scavenger receptor expressed mainly on monocytes and macrophages, which binds hemoglobin-haptoglobin complex.
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:	CD163

Target Details

Alternative Name:	CD163 (CD163 Products)
Background:	CD163 Molecule,CD163, also known as M130, is a member of the scavenger receptor family, accounting for the clearance of hemoglobin-haptoglobin complexes during limited hemolysis, which protects the body, in particular the kidneys, against heme-mediated oxidative damages. It does not have measurable affinity for noncomplexed hemoglobin or haptoglobin. Immunomodulatory role of CD163 has been postulated. CD163 is expressed by cells of the monocyte-macrophage lineage and its extracellular part also circulates in plasma as a soluble protein, especially during sepsis and other conditions affecting macrophage activity, when its level may raise manyfold.,MM130, SCARI1
Gene ID:	9332
UniProt:	Q86VB7

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

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.** 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:

Kusi, Gyan, Goka, Dodoo, Obeng-Adjei, Troye-Blomberg, Akanmori, Adjimani: "Levels of soluble CD163 and severity of malaria in children in Ghana." in: **Clinical and vaccine immunology : CVI**, Vol. 15, Issue 9, pp. 1456-60, (2008) (PubMed).

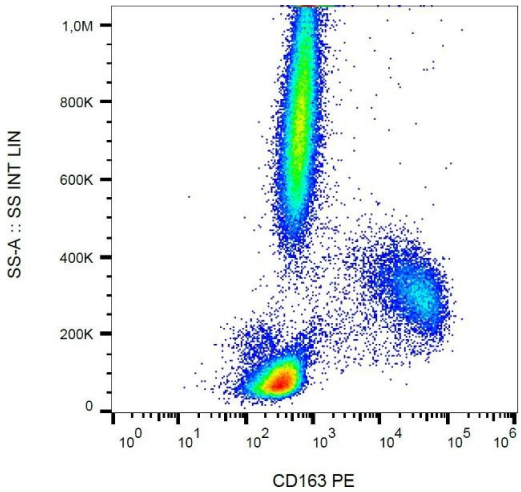
Moniuszko, Kowal, Rusak, Pietruczuk, Dabrowska, Bodzenta-Lukaszyk: "Monocyte CD163 and CD36 expression in human whole blood and isolated mononuclear cell samples: influence of different anticoagulants." in: **Clinical and vaccine immunology : CVI**, Vol. 13, Issue 6, pp. 704-7, (2006) (PubMed).

Kim, Alvarez, Fisher, Bronfin, Westmoreland, McLaurin, Williams: "CD163 identifies perivascular macrophages in normal and viral encephalitic brains and potential precursors to perivascular macrophages in blood." in: **The American journal of pathology**, Vol. 168, Issue 3, pp. 822-34, (2006) (PubMed).

Law, Micklem, Shaw, Zhang, Dong, Willis, Mason: "A new macrophage differentiation antigen which is a member of the scavenger receptor superfamily." in: **European journal of immunology**, Vol. 23, Issue 9, pp. 2320-5, (1993) (PubMed).

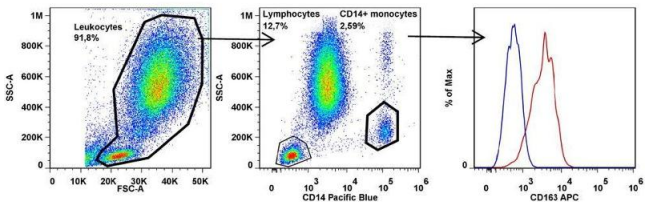
Pulford, Micklem, McCarthy, Cordell, Jones, Mason: "A monocyte/macrophage antigen recognized by the four antibodies GHI/61, Ber-MAC3, Ki-M8 and SM4." in: **Immunology**, Vol. 75, Issue 4, pp. 588-95, (1992) (PubMed).

Images



Flow Cytometry

Image 1. Flow cytometry analysis (surface staining) of human peripheral blood using anti-human CD163 (clone GHI/61) PE.



Flow Cytometry

Image 2. Surface staining of human peripheral blood using anti-human CD163 (clone

