



Datasheet for ABIN2749210
anti-CD68 antibody (PE)



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Overview

Quantity:	100 tests
Target:	CD68
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD68 antibody is conjugated to PE
Application:	Flow Cytometry (FACS)

Product Details

Immunogen:	Lysosomal contents of lung macrophages
Clone:	Y1-82A
Isotype:	IgG2b
Specificity:	The mouse monoclonal antibody Y1/82A recognizes CD68 (LAMP4), a 110 kDa glycoprotein expressed mainly in cytoplasmic granules of monocytes/macrophages, granulocytes, and dendritic cells.
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:	CD68
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Target Details

Alternative Name: [CD68 \(CD68 Products\)](#)

Background: CD68 Molecule,CD68 (also known as LAMP4 or SCARD1) is a 110 kDa type I transmembrane glycoprotein of the lysosomal/endosomal-associated membrane glycoprotein (LAMP) family and the scavenger receptor family. Although CD68 primarily localizes to lysosomes and endosomes, its fraction circulates to the cell surface. By the heavily glycosylated extracellular domain CD68 binds to tissue- and organ-specific lectins or selectins. It is expressed mainly in cytoplasmic granules of monocytes/macrophages, granulocytes, and dendritic cells, but also e.g. in a proportion of epithelial tumours (diagnosis of poorly differentiated neoplasms),GP110, LAMP4, SCARD1

Gene ID: 968

UniProt: [P34810](#)

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 10⁶ cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests. Extracellular and intracellular staining.

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: Yamagami, Yokoo, Amano, Ebihara: "Characterization of bone marrow derived cells in the

substantia propria of the human conjunctiva." in: **Investigative ophthalmology & visual science**, Vol. 48, Issue 10, pp. 4476-81, (2007) ([PubMed](#)).

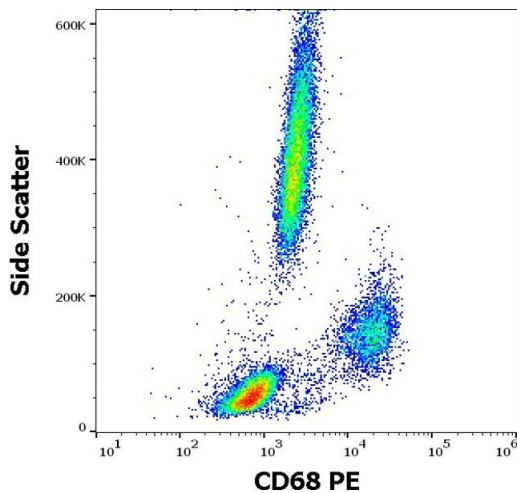
Mack, Tucker, Sokol, Karrer, Kotzin, Whittington, Miller: "Biliary atresia is associated with CD4+ Th1 cell-mediated portal tract inflammation." in: **Pediatric research**, Vol. 56, Issue 1, pp. 79-87, (2004) ([PubMed](#)).

Ulanova, Tarkowski, Hahn-Zoric, Hanson: "The Common vaccine adjuvant aluminum hydroxide up-regulates accessory properties of human monocytes via an interleukin-4-dependent mechanism." in: **Infection and immunity**, Vol. 69, Issue 2, pp. 1151-9, (2001) ([PubMed](#)).

Doussis, Gatter, Mason: "CD68 reactivity of non-macrophage derived tumours in cytological specimens." in: **Journal of clinical pathology**, Vol. 46, Issue 4, pp. 334-6, (1993) ([PubMed](#)).

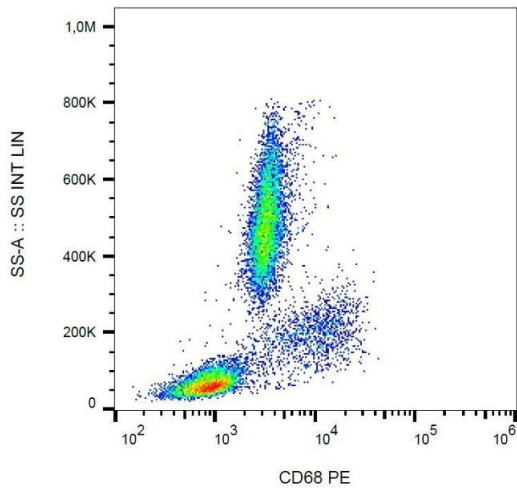
Holness, Simmons: "Molecular cloning of CD68, a human macrophage marker related to lysosomal glycoproteins." in: **Blood**, Vol. 81, Issue 6, pp. 1607-13, (1993) ([PubMed](#)).

Images



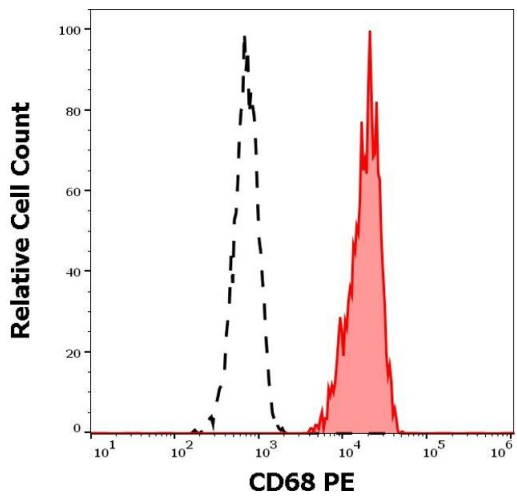
Flow Cytometry

Image 1. Flow cytometry intracellular staining pattern of human peripheral whole blood stained using anti-human CD68 (Y1/82A) PE antibody (10 µL reagent / 100 µL of peripheral whole blood).



Flow Cytometry

Image 2. Intracellular staining of human peripheral blood cells with anti-CD68 (Y1/82A) PE.



Flow Cytometry

Image 3. Separation of human monocytes (red-filled) from CD68 negative lymphocytes (black-dashed) in flow cytometry analysis (intracellular staining) of human peripheral whole blood stained using anti-human CD68 (Y1/82A) PE antibody (10 μ L reagent / 100 μ L of peripheral whole blood).