Datasheet for ABIN2749213

anti-CD68 antibody

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Overview

Quantity:	0.1 mg
Target:	CD68
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD68 antibody is un-conjugated
Application:	Flow Cytometry (FACS), Immunohistochemistry (Frozen Sections) (IHC (fro))

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

Target Details

Target:	CD68
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: Recommended dilution: 2-6 µg/mL. Extracellular and intracellular staining.
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:	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).

Publications

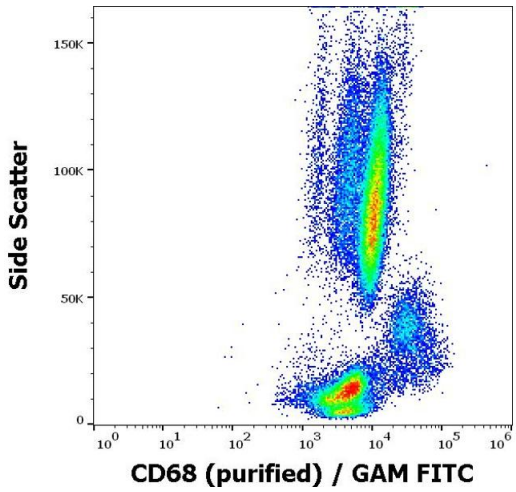
Mack, Tucker, Sokol, Karrer, Kotzin, Whitington, Miller: "Biliary atresia is associated with CD4+ Th1 cell-mediated portal tract inflammation." in: **Pediatric research**, Vol. 56, Issue 1, pp. 79-87, (2004) (PubMed).

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).

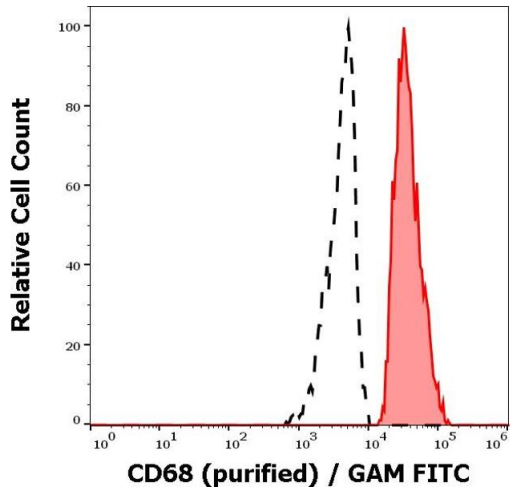
Holness, Simmons: "Molecular cloning of CD68, a human macrophage marker related to lysosomal glycoproteins." in: **Blood**, Vol. 81, Issue 6, pp. 1607-13, (1993) (PubMed).

Images



Flow Cytometry

Image 1. Flow cytometry intracellular staining pattern of human peripheral blood stained using anti-human CD68 (Y1/82A) purified antibody (concentration in sample 2 µ g/mL) GAM FITC.



Flow Cytometry

Image 2. 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) purified antibody (concentration in sample 2 µ g/mL) GAM FITC.