



1P-749-T025

Monoclonal Antibody to CD68 Phycoerythrin (PE) conjugated (25 tests)

Clone:	Y1/82A
Isotype:	Mouse 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.
Regulatory Status:	RUO
Immunogen:	Lysosomal contents of lung macrophages
Species Reactivity:	Human
Preparation:	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.
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 10 µl reagent / 100 µl of whole blood or 10 ⁶ cells in a suspension. The content of a vial (0.25 ml) is sufficient for 25 tests.
Expiration:	See vial label
Lot Number:	See vial label
Background:	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).

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Antibodies

References:

- *Ulanova M, Tarkowski A, Hahn-Zoric M, Hanson LA: The Common vaccine adjuvant aluminum hydroxide up-regulates accessory properties of human monocytes via an interleukin-4-dependent mechanism. *Infect Immun.* 2001 Feb;69(2):1151-9.
- *Mack CL, Tucker RM, Sokol RJ, Karrer FM, Kotzin BL, Whittington PF, Miller SD: Biliary atresia is associated with CD4+ Th1 cell-mediated portal tract inflammation. *Pediatr Res.* 2004 Jul;56(1):79-87.
- *I A Doussis, K C Gatter, and D Y Mason: CD68 reactivity of non-macrophage derived tumours in cytological specimens. *J Clin Pathol.* 1993 April; 46(4): 334-336.
- *Yamagami S, Yokoo S, Amano S, Ebihara N: Characterization of bone marrow derived cells in the substantia propria of the human conjunctiva. *Invest Ophthalmol Vis Sci.* 2007 Oct;48(10):4476-81.
- *Holness CL, Simmons DL: Molecular cloning of CD68, a human macrophage marker related to lysosomal glycoproteins. *Blood.* 1993 Mar 15;81(6):1607-13.
- *Doussis IA, Gatter KC, Mason DY: CD68 reactivity of non-macrophage derived tumours in cytological specimens. *J Clin Pathol.* 1993 Apr;46(4):334-6.

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EXBIO Praha | Nad Safinou II 341 | 252 50 Vestec u Prahy | Czech Republic
Tel: +420 261 090 666 | Fax: +420 261 090 660 | orders@exbio.cz | www.exbio.cz