



11-749-C025

Monoclonal Antibody to CD68 Purified Antibody (0.025 mg)

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
Application:	Flow Cytometry Application note: intracellular staining Immunohistochemistry (frozen sections)
Purity:	> 95% (by SDS-PAGE)
Purification:	Purified by protein-A affinity chromatography
Concentration:	1 mg/ml
Storage Buffer:	Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4
Storage / Stability:	Store at 2-8°C. Do not freeze. Do not use after expiration date stamped on vial label.
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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