

Monoclonal Antibody to CD68 - PE

Alternate names:	Gp110, Macrophage marker, Macrosialin
Catalog No.:	BM4000R
Quantity:	100 Tests
Background:	The CD68 antigen is a 37kD transmembrane protein that is post-translationally glycosylated to give a protein of 87-115kD. CD68 is specifically expressed by tissue macrophages, Langerhans cells and at low levels by dendritic cells. It could play a role in phagocytic activities of tissue macrophages, both in intracellular lysosomal metabolism and extracellular cell-cell and cell-pathogen interactions. It binds to tissue- and organ-specific lectins or selectins, allowing homing of macrophage subsets to particular sites. Rapid recirculation of CD68 from endosomes and lysosomes to the plasma membrane may allow macrophages to crawl over selectin bearing substrates or other cells.
Uniprot ID:	Q4FZY1
NCBI:	NP_001026808.1
GeneID:	287435
Host / Isotype:	Mouse / IgG1
Clone:	ED1
Immunogen:	Rat spleen cells. Spleen cells from immunised BALB/c mice were fused with cells of the SP2/0-Ag14 mouse myeloma cell line.
Format:	State: Lyophilized purified IgG fraction. Purification: Affinity Chromatography on Protein A Buffer System: PBS, pH 7.4 containing 0.09% Sodium Azide and 1% BSA Label: PE – R. Phycoerythrin (RPE) Reconstitution: Restore with 1 ml distilled water
Applications:	Flow Cytometry: Use 10 µl of Neat-1/10 diluted antibody to label 10e6 cells in 100 µl. Results maybe enhanced using membrane permeabilisation. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody recognises CD68. Species: Rat. Other species not tested.
Storage:	Prior to and following reconstitution store the antibody at 2-8°C. DO NOT FREEZE! This product is photosensitive and should be protected from light. Shelf life: one year from despatch.

For research and in vitro use only. Not for diagnostic or therapeutic work.

Material Safety Datasheets are available at www.acris-antibodies.com or on request.

Antibody Hotline - Technical Questions - Antibody Location Service
Free Call: 0800-2274746 (Germany only) - www.acris-antibodies.com

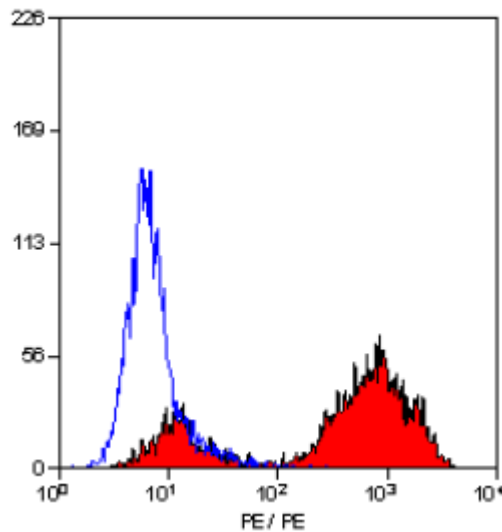
Product Citation:

Unconjugated antibody is cited in:

1. R. Schneider, M. Meusel, S. Renker, C. Bauer, H. Holzinger, M. Roeder, C. Wanner, M. Gekle, and C. Sauvart Low-dose indomethacin after ischemic acute kidney injury prevents downregulation of Oat1/3 and improves renal outcome. *Am J Physiol Renal Physiol*, Dec 2009; 297: F1614-F1621.

General References:

1. Damoiseaux, J.G.M.C. et al. (1994) Rat macrophage lysosomal membrane antigen recognised by monoclonal antibody ED1. *Immunol.* 83: 140-147.
2. Dijkstra, C.D. et al. (1985) The heterogeneity of mononuclear phagocytes in lymphoid organs: distinct macrophage subpopulations in the rat recognised by monoclonal antibodies ED1, ED2 and ED3. *Immunol* 54: 589.
3. Bauer, J. et al. (1994) Phagocytic activity of macrophages and microglial cells during the course of Acute and Chronic Relapsing Experimental Autoimmune Encephalomyelitis. *J. Neurosci. Res.* 38: 365-375.

Pictures:

Staining of rat peritoneal macrophages cells with Mouse Anti RAT CD68 antibody RPE conjugated (BM4000R).

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