

bsm-10821M**[Primary Antibody]****CD68 Mouse mAb****BioSS**
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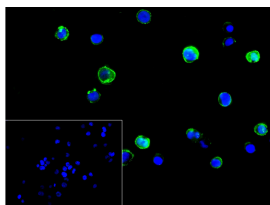
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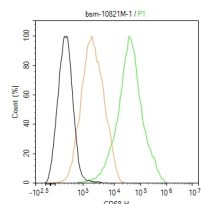
— DATASHEET —**Host:** Mouse**Clonality:** Monoclonal**GeneID:** 968**Target:** CD68**Purification:** affinity purified by Protein G**Concentration:** 1mg/ml**Storage:** 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: This gene encodes a 110-kD transmembrane glycoprotein that is highly expressed by human monocytes and tissue macrophages. It is a member of the lysosomal/endosomal-associated membrane glycoprotein (LAMP) family. The protein primarily localizes to lysosomes and endosomes with a smaller fraction circulating to the cell surface. It is a type I integral membrane protein with a heavily glycosylated extracellular domain and binds to tissue- and organ-specific lectins or selectins. The protein is also a member of the scavenger receptor family. Scavenger receptors typically function to clear cellular debris, promote phagocytosis, and mediate the recruitment and activation of macrophages. Alternative splicing results in multiple transcripts encoding different isoforms. [provided by RefSeq, Jul 2008]

CD68 (Macrosialin) is a 110 kDa integral membrane glycoprotein predominantly expressed on the intracellular lysosomes of monocytes and macrophages and to a lesser extent by dendritic cells and peripheral blood granulocytes. Also, CD68 could play a role in phagocytic activities of tissue macrophages, both in intracellular lysosomal metabolism and extracellular cell-cell and cell-pathogen interactions. CD68 is expressed by interdigitating reticulum cells in tonsil and some histiocytic lymphoma or histiocytosis, acute myeloid leukemia (AML), and granulocytic sarcoma. Elevated expression of CD68 has been demonstrated on CD34+ cells in various human malignancies, including several Acute Myeloid Leukemia studies.

Isotype: IgG**CloneNo.:** 6F7**SWISS:** P34810**Applications:** **Flow-Cyt** (1:50-100)
ICC/IF (1:50-200)
ELISA (1:5000-10000)**Reactivity:** Human**Predicted**
MW.: 37 kDa**Observed**
MW.: 110-140K Da**Subcellular**
Location: Cell membrane ,Cytoplasm**— VALIDATION IMAGES —**

4% Paraformaldehyde-fixed THP-1 (H) cell;
Antibody incubation with (CD68) monoclonal
Antibody, unconjugated (bsm-10821M) 1:100, 90
min at 37°C; followed by FITC conjugated Goat
Anti-Mouse IgG antibody (green, bs-60296G-
FITC) at 37°C for 90 min, DAPI (blue, C02-04002)
was used to stain the cell nuclei. PBS instead of
the primary antibody was used as the blank
control.



The THP-1 (H) cells were incubated in 5%BSA to
block non-specific protein-protein interactions
(30 min at r.t.) , followed by secondary antibody
incubation for 40 min at room temperature.
Primary Antibody (green): Rabbit Anti-CD68
antibody (bsm-10821M,1:100); Isotype Control
(orange): Mouse IgG (bs-0296P). Blank control
(black): PBS. Acquisition of 20,000 events was
performed.