

bsm-33056M**[Primary Antibody]****CD68 Mouse mAb****BioSS**
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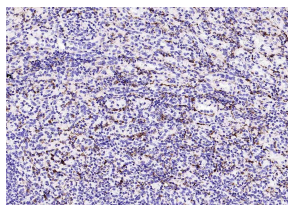
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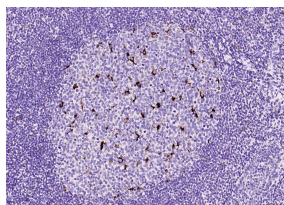
400-901-9800

— DATASHEET —**Host:** Mouse**Isotype:** IgG**Clonality:** Monoclonal**CloneNo.:** 8F3**GeneID:** 968**SWISS:** P34810**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.

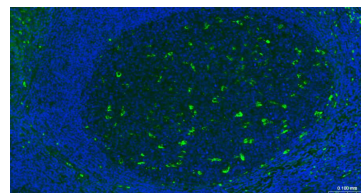
Background: This gene encodes a 110-kD transmembrane glycoprotein that is highly expressed by human monocytes and tissue macrophages. It is a member of the lysosomal/endosomal-associated membrane glycoprotein (LAMP) family. The protein primarily localizes to lysosomes and endosomes with a smaller fraction 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.

Applications: IHC-P (1:50-200)**IHC-F** (1:50-200)**IF** (1:50-200)**Reactivity:** Human, Rat**Predicted MW.:** 37 kDa**Subcellular Location:** Cell membrane ,Cytoplasm**— VALIDATION IMAGES —**

Paraformaldehyde-fixed, paraffin embedded (human spleen); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Incubation with (CD68) Monoclonal Antibody, Unconjugated (bsm-33056M) at 1:50 overnight at 4°C, followed by operating according to SP Kit(Mouse)(sp-0024) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (human tonsil); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Incubation with (CD68) Monoclonal Antibody, Unconjugated (bsm-33056M) at 1:50 overnight at 4°C, followed by operating according to SP Kit(Mouse)(sp-0024) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded Human Tonsil; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with CD68 Monoclonal Antibody, Unconjugated (bsm-33056M) at 1:100 overnight at 4°C. Followed by conjugated Goat Anti-Mouse IgG antibody (green, bs-0296G-BF488), DAPI (blue, C02-04002) was used to stain the cell nuclei.

— SELECTED CITATIONS —

- **[IF=18.5]** Yizhou Zhu. et al. Photocurrent-Directed Immunoregulation Accelerates Osseointegration through Activating Calcium Influx in Macrophages. ADV FUNCT MATER. 2024 Oct;;2406095 IHC ;Rat. 10.1002/adfm.202406095
- **[IF=13.2]** Yuan Su. et al. Oral solid-liquid biphasic microcapsules for precision targeted therapy of Salmonella-induced enteritis. CHEM ENG J. 2025 Apr;509:161497 IF ;Rat. 10.1016/j.cej.2025.161497
- **[IF=8.025]** Ningning Lei. et al. Research on essential performance of oxidized chitosan-crosslinked acellular porcine aorta modified with bioactive SCPP/DOPA for esophageal scaffold with enhanced mechanical strength, biocompatibility and anti-inflammatory. INT J BIOL MACROMOL. 2023 Jun;241:124522 IHC ;Rat. 37100332
- **[IF=7.59]** Mengyue Hu. et al. Well-designed two-fold crosslinked biological valve leaflets with heparin-loaded hydrogel coating for enhancing anticoagulation, endothelialization, and anticalcification. BIOMATER SCI-UK. 2022 Aug;; IHC ;Rat. 35947038
- **[IF=5.395]** Xueyu Huang. et al. Hyaluronic Acid-Grafted Bioprosthetic Heart Valves Achieved by Copolymerization Exhibited Improved Anticalcification and Antithrombogenicity. ACS BIOMATER-SCI ENG. 2022;XXXX(XXX):XXX-XXX IHC ;Rabbit. 35839344