

bs-0649R**[Primary Antibody]****CD68 Rabbit pAb****BioSS**
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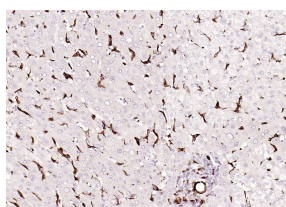
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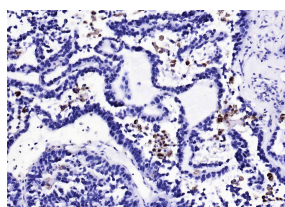
400-901-9800

— DATASHEET —

Host: Rabbit	Isotype: IgG	Applications: IHC-P (1:100-500) IHC-F (1:100-500)
Clonality: Polyclonal		Reactivity: Human
GeneID: 968	SWISS: P34810	
Target: CD68		
Immunogen: Recombinant human CD68 protein: 22-319/354. < Extracellular >		
Purification: affinity purified by Protein A		
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.		
		Predicted MW.: 37 kDa
		Observed MW.: 110-140K Da
		Subcellular Location: Cell membrane ,Cytoplasm

— VALIDATION IMAGES —

Paraformaldehyde-fixed, paraffin embedded (human liver); 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) Polyclonal Antibody, Unconjugated (bs-0649R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (Human ovarian cancer); Antigen retrieval by microwaving in sodium citrate buffer (pH6.0) for 5min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (CD68) Polyclonal Antibody, Unconjugated (bs-0649R) at 1:500 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

— SELECTED CITATIONS —

- **[IF=18.027]** Yue Zhou. et al. Turning Hot into Cold: Immune Microenvironment Reshaping for Atherosclerosis Attenuation Based on pH-Responsive shSiglec-1 Delivery System. ACS NANO. 2022;XXXX(XXX):XXX-XXX IF ;Mouse. 35762565
- **[IF=15.881]** Tang Gao. et al. Biomimetic Glucan Particles with Aggregation-Induced Emission Characteristics for Noninvasive Monitoring of Transplant Immune Response. Acs Nano. 2021;XXXX(XXX):XXX-XXX IF,IHC ;Mouse. 34264052
- **[IF=14.808]** Xue Gong. et al. Circular RNA circEyt2 regulates vascular smooth muscle cell remodeling via splicing regulation. J Clin Invest. 2021 Dec 15;131(24):e147031 IF ;Mouse. 34907911
- **[IF=10.652]** Zhuo Liang. et al. Exosome derived from mesenchymal stem cells mediates hypoxia-specific BMP2 gene delivery and enhances bone regeneration. CHEM ENG J. 2021 Oct;422:130084 IF ;Rabbit. 10.1016/j.cej.2021.130084
- **[IF=10.6]** Shichuan Hu. et al. SAMHD1 drives immunosuppression in non-small cell lung cancer by promoting macrophage infiltration and restricting oncolytic adenovirus replication. J IMMUNOTHER CANCER. 2026 Jan;14(1):e013550 IHC ;Human. 41611242