bs-20403R **[Primary Antibody]**

Cd68 Rabbit pAb

www.bioss.com.cn
sales@bioss.com.cn
techsupport@bioss.com.cn
400-901-9800

DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 12514 **SWISS:** P31996

Target: Cd68

Immunogen: KLH conjugated synthetic peptide derived from mouse CD68: 151-250/335. < 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 lysomsomes 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: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)

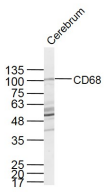
Reactivity: Mouse, Rat (predicted: Pig)

Predicted MW.: 37 kDa

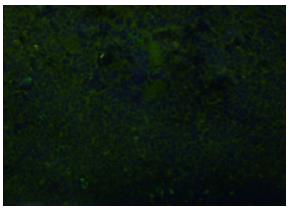
Observed MW.: 110 kDa

Subcellular Location: Cell membrane ,Cytoplasm

VALIDATION IMAGES



Sample: Cerebrum (Mouse) Lysate at 40 ug
Primary: Anti-CD68 (bs-20403R) at 1/300 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 37 kD
Observed band size: 110 kD



OCT embedded (Rat spleen), acetone-fixed; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (CD68) Polyclonal Antibody, Unconjugated (bs-20403R) at 1:400 overnight at 4°C, followed by a conjugated secondary antibody (bs-0295G-FITC) for 90 minutes, and DAPI for nuclei 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=19]** Xuan Yao. et al. Dual Dynamic Crosslinked Hydrogel Patch Embodied with Anti-Bacterial and Macrophage Regulatory Properties for Synergistic Prevention of Peritendinous Adhesion. ADV FUNCT MATER. 2024 May;:2400660 IF ;Rat. 10.1002/adfm.202400660
- **[IF=8.7]** Xin Chen. et al. Decellularized adipose matrix hydrogel-based in situ delivery of antagomiR150-5p for rat abdominal aortic aneurysm therapy. MATER TODAY BIO. 2024 Nov;:101350 IHC ;Rat. 39677522
- **[IF=7.7]** Zhineng Liu. et al.Proline rich-39 (PR-39) antimicrobial protein alleviated lipopolysaccharide-induced intestinal barrier dysfunction in piglets by altering intestinal flora associated bile acid metabolism and in turn regulating TGR-5/NF-κB/MLCK/MLC pathway..International Journal of Biological Macromolecules.2025 Mar 10;307(Pt 1):141930. IHC ;Pig. 40074117
- **[IF=6.7]** Wu Haoshuang. et al. A strategy for mechanically integrating robust Hydrogel-Tissue hybrid to promote the anti-calcification and endothelialization of bioprosthetic heart valve. REGEN BIOMATER. 2024 Jan;: IHC ;Pig. 10.1093/rb/rbae003
- **[IF=5.9]** Xiaoyun Chen. et al. SPHK1-mediated M2 macrophage polarization drives TGF-β1-dependent thrombus fibrosis. FRONT IMMUNOL. 2025 Nov;16: FC ;Rat. 41333463

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