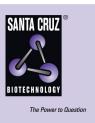
SANTA CRUZ BIOTECHNOLOGY, INC.

CD68 (M-20): sc-7084



BACKGROUND

CD68, which is homologous to the mouse antigen macrosialin, belongs to a family of acidic, highly glycosylated lysosomal glycoproteins (LGPs) that includes lamp-1 and lamp-2. CD68 is found in cytoplasmic granules and in the cytoplasm of various non-hematopoietic tissues including liver and kidney tubules and glomeruli. It is also found, to a lesser extent, on the surface of macrophages, monocytes, neutrophils, basophils and large lymphocytes. LGPs are major components of lysosomal membranes and may act to protect the membranes from attack by hydrolases.

CHROMOSOMAL LOCATION

Genetic locus: Cd68 (mouse) mapping to 11 B3

SOURCE

CD68 (M-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of CD68 of mouse origin.

PRODUCT

Each vial contains 200 μg lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-7084 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

CD68 (M-20) is recommended for detection of CD68 of mouse and rat origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for CD68 siRNA (m): sc-35020, CD68 shRNA Plasmid (m): sc-35020-SH and CD68 shRNA (m) Lentiviral Particles: sc-35020-V.

Molecular Weight of CD68 highly glycosylated protein: 75-110 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluo-rescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941. 3) Immunohistochemistry: use ImmunoCruz™: sc-2053 or ABC: sc-2023 goat IgG Staining Systems.

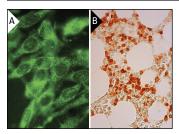
STORAGE

Store at 4° C, **D0 NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

DATA



CD68 (M-20): sc-7084. Immunofluorescence staining of methanol-fixed NIH/3T3 cells showing cytoplasmic localization (**A**). Immunoperoxidase staining of formalin fixed, paraffin-embedded human bone marrow tissue showing cytoplasmic staining of subset of hematopoietic cells (**B**).

SELECT PRODUCT CITATIONS

- 1. Janda, E., et al. 2002. Ras and TGF β cooperatively regulate epithelial cell plasticity and metastasis: dissection of Ras signaling pathways. J. Cell Biol. 156: 299-314.
- 2. Wu, Y.J., et al. 2009. Cyclophosphamide enhances human tumor growth in nude rat xenografted tumor models. Neoplasia 11: 187-195.
- Carneiro, E., et al. 2009. Expression analysis of matrix metalloproteinase-9 in epithelialized and nonepithelialized apical periodontitis lesions. Oral Surg. Oral Med. Oral Pathol. Oral Radiol. Endod. 107: 127-132.
- Zambuzzi, W.F., et al. 2009. MMP-9 and CD68+ cells are required for tissue remodeling in response to natural hydroxyapatite. J. Mol. Histol. 40: 301-309.
- Hyvarinen, K., et al. 2009. Chlamydial and periodontal pathogens induce hepatic inflammation and fatty acid imbalance in apolipoprotein E-deficient mice. Infect. Immun. 77: 3442-3449.
- Cristovao, A.C., et al. 2010. Microglia of rat ventral midbrain recovers its resting state over time *in vitro*: let microglia rest before work. J. Neurosci. Res. 15: 552-562.
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MONOS Satisfation Guaranteed

Try **CD68 (KP1): sc-20060** or **CD68 (E-11): sc-17832**, our highly recommended monoclonal alternatives to CD68 (M-20). Also, for AC, HRP, FITC, PE, Alexa Fluor[®]

488 and Alexa Fluor[®] 647 conjugates, see **CD68 (KP1):** sc-20060.