BOSTER BIOLOGICAL TECHNOLOGY
3942 B Valley Ave, Pleasanton, CA 94566
888-466-3604 | support@bosterbio.com | www.bosterbio.com

Anti-CD68 (Macrophage Marker) Monoclonal Antibody

Catalog Number: M00602

About CD68

This antibody recognizes a glycoprotein of 110kDa, which is identified as CD68. It is important for identifying macrophages in tissue sections. It stains macrophages in a wide variety of human tissues, including Kupffer cells and macrophages in the red pulp of the spleen, in lamina propria of the gut, in lung alveoli, and in bone marrow. It reacts with myeloid precursors and peripheral blood granulocytes. It also reacts with plasmacytoid T cells, which are supposed to be of monocyte/macrophage origin. It shows strong granular cytoplasmic staining of chronic and acute myeloid leukemia and also reacts with rare cases of true histiocytic neoplasia. Lymphomas are negative or show few granules.

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Overview

Product Name	Anti-CD68 (Macrophage Marker) Monoclonal Antibody
Reactive Species	Human, Monkey, Rabbit, Cat
Description	Boster Bio Anti-CD68 (Macrophage Marker) Monoclonal Antibody (Catalog # M00602). Tested in Flow Cytometry, IF, IHC applications. This antibody reacts with Human, Monkey, Rabbit, Cat.
Conjugate	Biotin
Application	Flow Cytometry, IF, IHC
Clonality	Monoclonal Clone: SPM130
Formulation	Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Storage Instructions	Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.
Host	Mouse
Uniprot ID	P34810

Technical Details

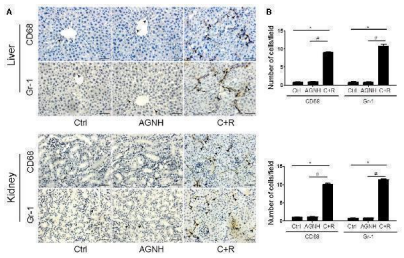
Immunogen	Subcellular fraction of human alveolar macrophages
Predicted Reactive Species	Mouse,Rat,Rabbit,Bovine,Canine,Pig,Deer,Orangutan

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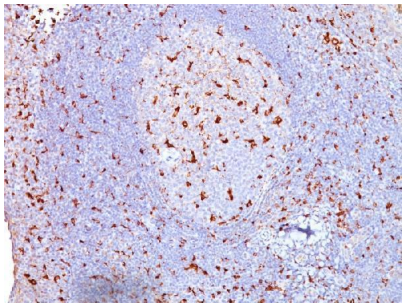
Cross Reactivity	Does not cross-react with primate, avian or amphibian GR.
Isotype	IgG1, kappa
Form	Liquid
Concentration	Purified antibody with BSA and azide at 200ug/ml
Purification	200ug/ml of antibody purified from Bioreactor Concentrate by Protein A/G.
Suggested Dilutions	Flow Cytometry (1-2ug/million cells) Immunofluorescence (1-2ug/ml) Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 30 minutes at RT) (Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes) Optimal dilution for a specific application should be determined. Recognizes full-lengh GR, the 17kDa DNA binding trypsin fragment and the 45kDa steroid- and DNA-binding chymotrypsin fragment.

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Anti-CD68 (Macrophage Marker) Monoclonal Antibody (M00602) Images



(A) Representative photomicrographs showing infiltrating CD68-positive macrophages or Gr-1 positive neutrophils (indicated by arrowheads) in the liver and kidney tissues of mice from three different groups: Ctrl, saline operated; AGNH, An-Gong-Niu-Huang Wan 2.5 g/kg/d treatment for consecutive 28 days; C+R, cinnabar and reaglar 0.14 + 0.14 g/kg/d combinational treatment for consecutive 28 days. Scale bar: 50 um. (B) Quantification of the number of CD68-positive macrophages or Gr-1 positive neutrophils per high-power field in different groups. Each bar represents mean ± SD for 6 mice. ∗ P < 0.05 saline control versus cinnabar and reaglar co-administration; # P < 0.05, An-Gong-Niu-Huang Wan versus cinnabar and reaglar co-administration.Index in PubMed under a CC BY license. PMID: 29950994



Formalin-fixed, paraffin-embedded human Tonsil stained with Anti-CD68 Mouse Monoclonal Antibody (SPM130).

16 Publications Citing This Product

1. PubMed ID: 10.3389/fphar.2018.00618, UPLC/Q-TOFMS-Based Metabolomics Approach to Reveal the Protective Role of Other Herbs in An-Gong-Niu-Huang Wan Against the Hepatorenal Toxicity of Cinnabar and Realgar

2. PubMed ID: 34020949,

Myeloid-derived growth factor inhibits inflammation and alleviates endothelial injury and atherosclerosis in mice

Authors: Meng B,Li Y,Ding Y,Xu X,Wang L,Guo B,Zhu B,Zhang J,Xiang L,Dong J,Liu M,Xiang L,Xiang G.

3. PubMed ID: 32964311, Paschalidi P,Gkouveris I,Soundia A,Kalfarentzos E,Vardas E, Georgaki M,Kostakis G,Erovic BM,Tetradis S,Perisanidis C,Nikitakis NG.The role of M1 and M2 macrophage polarization in progression of medication-related osteonecrosis of the jaw.Clin Oral Investig.2020 Sep 22:10.1007/s00784-020-03602-z.doi:10.1007/s00784-020-03602-z.Epub ahead of print.PMID:32964311;PMCID:PMC7982347.

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