

Rat CD68 Monoclonal Antibody | anti-CD68 antibody

RAT ANTI MOUSE CD68:Biotin

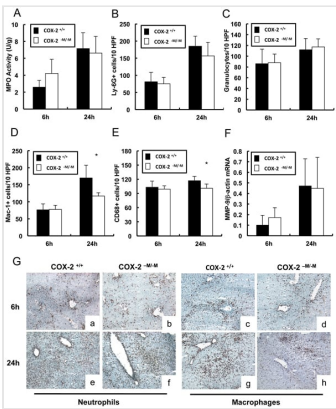
CATALOG # AAA12103	HOST Rat	APPLICATIONS Flow Cytometry, Functional Assay
------------------------------	--------------------	---

PRODUCT SYNONYMS

CD68; Monoclonal Antibody; RAT ANTI MOUSE CD68:Biotin; anti-CD68 antibody

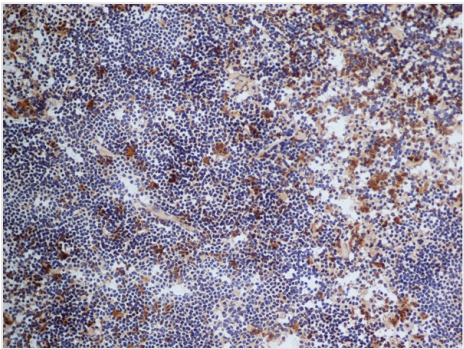
PRODUCT SPECIFICATIONS

Host	Rat
Clonality	Monoclonal
Isotype	IgG2a
Clone Number	FA-11
Form/Format	Biotin Purified IgG conjugated to Biotin - liquid
Concentration	IgG concentration 0.1mg/ml (varies by lot)
Sequence Length	318
Applicable Applications for anti-CD68 antibody	FCM/FACS (Flow Cytometry)
Application Notes	Flow Cytometry: Use 10ul of the suggested working dilution to label 106 cells in 100ul. Flow Cytometry: Minimum Dilution: Neat; Maximum Dilution: 1/10; Application Note: Membrane permeabilisation is required for this application. We recommends the use of Leucoperm. The Fc region of monoclonal antibodies may bind non-specifically to cells expressing low affinity Fc receptors. This may be reduced by using SeroBlock FcR.
Perservative Stabilisers	0.09% Sodium Azide 1% Bovine Serum Albumin Preparation
Immunogen	Purified Concanavalin A acceptor glycoprotein from P815 cell line Buffer Solution
Target Species	Mouse
Preparation and Storage	Store at 4 degree C or at -20 degree C if preferred. This product should be stored undiluted. Storage in frost free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use. Shelf Life: 18 months from date of despatch.



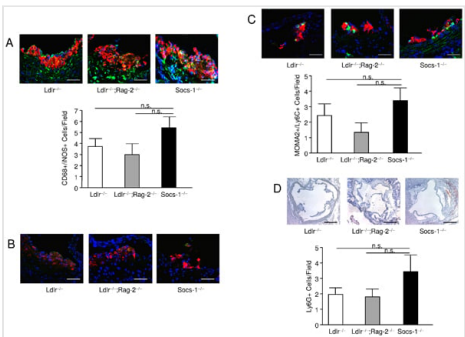
Application Data

Published customer image: Leukocyte infiltration in COX-2-M/M and COX-2+/+ mice. MPO enzymatic activity (panel A) was statistically similar in COX-2-M/M and COX-2+/+ livers at 6 h and 24 h post-IRI. Ly-6G+ neutrophil (panel B) and granulocyte (panel C) infiltration were also comparable in COX-2-M/M and COX-2+/+ livers after IRI. Mac-1+ (panel D) and CD68 (panel E) infiltrating macrophages were significantly reduced in COX-2-M/M livers at 24 h post-reperfusion, but were statistically indistinguishable in COX-2-M/M and COX-2+/+ livers at 6 h after IRI. No statistical differences in MMP-9 expression (panel F) could be demonstrated in livers of COX-2-M/M and COX-2+/+ mice post-IRI. Representative immunostaining (panel G) of infiltrating Ly-6G+ (a,b,e,f) and Mac-1+ (c,d,g,h) leukocytes in livers of COX-2+/+ (a,c,e,g) and COX-2-M/M (b,d,f,h) mice at 6 h (a to d) and 24 h (e to h) post IRI; (n = 5 -6/group; * indicates p



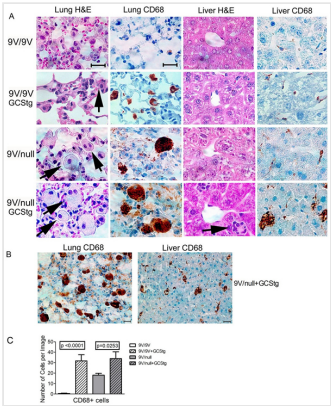
Application Data

Staining of mouse spleen cryosection with Rat anti Mouse CD68 followed by Goat anti Rat IgG:HRP showing staining of macrophages in the red pulp



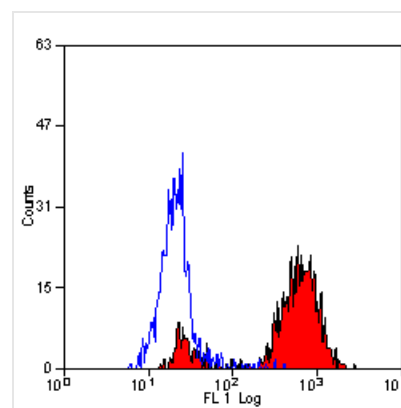
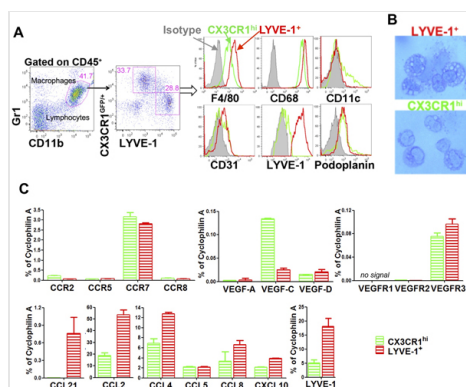
Application Data

Published customer image: Impact of SOCS-1 deficiency on atherosclerotic plaque composition A. Atherosclerotic plaques from Socs-1-/- triple-KO (Socs-1-/-) mice showed an increased CD68 (red);iNOS (green) double-positive cell content. B. CD68 (red); CD206 (green) double-positive cells were hardly detected. C. Atherosclerotic plaques from Socs-1-/- triple-KO (Socs-1-/-) mice contained slightly more MOMA-2 (red); Ly-6C (green) double-positive cells after 4 weeks of HCD as well as D. a higher number of Ly-6G positive cells (scale bar A -C: 20 um, scale bar D:50 um). N = 5 -7 animals per group.From: Grothusen C, Schuett H, Hillmer A, Lumpe S, Grote K, et al. (2012) Role of Suppressor of Cytokine Signaling-1 In Murine Atherosclerosis. PLoS ONE 7(12): e51608.



Application Data

Published customer image: Histology in 9V/9V/GCStg and 9V/null/GCStg mice. (A) The lung and liver sections from 9-wk old 9V/9V (row 1), 9V/9V/GCStg (row 2), 9V/null (row 3) and 9V/null/GCStg (row 4) were processed for H&E and CD68 antibody staining as indicated. Large and pale storage cells were observed in H&E stained lung and liver sections (arrows). The macrophages were indicated by anti-CD68 immunostaining (brown). Images were captured by Zeiss microscope with Spot Advance software. Scale bar was 40 um for all images. (B) The distribution and density of macrophages in 9V/null/GCStg lung and liver immunostained by anti-CD68 antibody (brown). Scale bar was 40 um for both images. (C) CD68 positive cells (CD68+) in 9V/9V/GCStg and 9V/null/GCStg lungs had significantly more CD68 stained macrophages than 9V/9V and 9V/null at 9 wks of age, respectively. The data present number of cells per image of total 5-15 images/mouse, 3 mice per genotype. Results with error bars are mean +/-S.E. The p values were from Student's t-test.From: Barnes S, Xu Y-H, Zhang W, Liou B, Setchell KDR, et al. (2014) Ubiquitous Transgene Expression of the Glucosylceramide-Synthesizing Enzyme Accelerates Glucosylceramide Accumulation and Storage Cells in a Gaucher Disease Mouse Model. PLoS ONE 9(12): e116023.



Application Data

Published customer image: Phenotype of pancreatic macrophages. (A) Identification of macrophage subsets in pancreas of CX3CR1GFP/+ C56BL/6 mice. Pancreatic single cell suspensions were gated on FSC-A vs FSC-W and CD45+. Histograms show receptor expression profile of CX3CR1hiLYVE-1- (green line) and CX3CR1loLYVE-1+ (red line) macrophages. (B) Sorted CX3CR1loLYVE-1+ and CX3CR1hiLYVE-1- macrophages spun onto glass slides and stained with Wright's stain. 1000x magnification. (C) mRNA expression profile of chemokine receptors, chemokines and VEGFs in pancreatic macrophage subsets. mRNA levels examined by qRT-PCR in duplicate or triplicate. 6 -7 mice/group, data representative of 2 -4 separate experiments. From: Yin N, Zhang N, Lal G, Xu J, Yan M, et al. (2011) Lymphangiogenesis Is Required for Pancreatic Islet Inflammation and Diabetes. PLoS ONE 6(11): e28023.

Application Data

Staining of mouse peritoneal macrophages with Rat anti Mouse CD68: Alexa Fluor 488 . following permeabilisation with Leucoperm

NCBI AND UNIPROT INFORMATION

NCBI GI #	6753352
NCBI GeneID	12514
NCBI Accession #	NP_033983.1
NCBI GenBank Nucleotide #	NM_009853.1
Molecular Weight	33,844 Da
NCBI Official Synonym Full Names	CD68 antigen
NCBI Official Symbol	Cd68
NCBI Official Synonym Symbols	Lamp4; gp110; Scard1
NCBI Protein Information	macrosialin
UniProt Protein Name	Macrosialin
UniProt Gene Name	Cd68
UniProt Entry Name	CD68_MOUSE

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://www.aaabiotech.com/monoclonal/cd68-antibody-clone-fa-11-flow-cytometry-elisa/12103>