

Resource Summary Report

Generated by [RRID](#) on Sep 9, 2026

RAT ANTI MOUSE F4/80

RRID:AB_323279

Type: Antibody

Proper Citation

Bio-Rad Cat# MCA497R, RRID:AB_323279

Antibody Information

URL: http://antibodyregistry.org/AB_323279

Proper Citation: Bio-Rad Cat# MCA497R, RRID:AB_323279

Target Antigen: F4/80

Host Organism: Rat

Clonality: monoclonal

Comments: Applications: Flow Cytometry, Immuno-electron Microscopy, Immunofluorescence, Immunohistology - Frozen, Immunohistology - Paraffin, Immunohistology - Resin, Immunoprecipitation, Radioimmunoassays, Western Blotting

Antibody Name: RAT ANTI MOUSE F4/80

Description: This monoclonal targets F4/80

Target Organism: mouse

Clone ID: Clone Cl:A3-1

Defining Citation: [PMID:18386786](#)

Antibody ID: AB_323279

Vendor: Bio-Rad

Catalog Number: MCA497R

Record Creation Time: 20231110T081410+0000

Record Last Update: 20260829T005349+0000

Ratings and Alerts

No rating or validation information has been found for RAT ANTI MOUSE F4/80.

No alerts have been found for RAT ANTI MOUSE F4/80.

Data and Source Information

Source: [Antibody Registry](#)

Usage and Citation Metrics

We found 40 mentions in open access literature.

Listed below are recent publications. The full list is available at [RRID](#) .

Pasquero S, et al. (2026) Targeting peptidyl-arginine deiminase 4 suppresses SARS-CoV-2 replication and modulates the inflammatory response. *iScience*, 29(3), 115038.

Wang S, et al. (2026) Xenophagocytosis blockade enhances interspecies chimerism. *Cell*.

Qu C, et al. (2026) Targeted extracellular vesicle-photoimmunotherapy remodels stromal-immune microenvironment to boost chemo-immunotherapy in preclinical models. *Cell reports. Medicine*, 7(7), 102843.

Zaidi Y, et al. (2025) Loss of neurofibromin induces inflammatory macrophage phenotypic switch and retinal neovascularization via GLUT1 activation. *Cell reports*, 44(5), 115625.

Leinweber B, et al. (2025) Bmal1 deficiency in neutrophils alleviates symptoms induced by high-fat diet. *iScience*, 28(3), 112038.

Onuma K, et al. (2024) Bardoxolone methyl prevents metabolic dysfunction-associated steatohepatitis by inhibiting macrophage infiltration. *British journal of pharmacology*, 181(15), 2545.

Singh K, et al. (2024) Mission SpaceX CRS-19 RRRM-1 space flight induced skin genomic plasticity via an epigenetic trigger. *iScience*, 27(12), 111382.

Gupta A, et al. (2024) Phospholipase C epsilon-1 (PLC ϵ 1) mediates macrophage activation and protection against tuberculosis. *Infection and immunity*, 92(4), e0049523.

Zhang T, et al. (2023) The protective effects of a novel AT2 receptor agonist, γ -Pro7Ang III in ischemia-reperfusion kidney injury. *Biomedicine & pharmacotherapy = Biomedecine & pharmacotherapie*, 161, 114556.

Liou GY, et al. (2023) Inflammatory and alternatively activated macrophages independently induce metaplasia but cooperatively drive pancreatic precancerous lesion growth. *iScience*, 26(6), 106820.

Thirunavukkarasu S, et al. (2023) Poly(ADP-ribose) polymerase 9 mediates early protection against Mycobacterium tuberculosis infection by regulating type I IFN production. *The Journal of clinical investigation*, 133(12).

Yofe I, et al. (2023) Spatial and Temporal Mapping of Breast Cancer Lung Metastases Identify TREM2 Macrophages as Regulators of the Metastatic Boundary. *Cancer discovery*, 13(12), 2610.

Ren Y, et al. (2023) Reduced angiogenesis and delayed endochondral ossification in CD163^{-/-} mice highlights a role of M2 macrophages during bone fracture repair. *Journal of orthopaedic research : official publication of the Orthopaedic Research Society*.

Hases L, et al. (2023) High-fat diet and estrogen modulate the gut microbiota in a sex-dependent manner in mice. *Communications biology*, 6(1), 20.

Constantinesco NJ, et al. (2023) Sodium-Glucose Cotransporter-2 Inhibitor, Empagliflozin, Suppresses the Inflammatory Immune Response to Influenza Infection. *ImmunoHorizons*, 7(12), 861.

Kenney HM, et al. (2023) Multi-omics analysis identifies IgG2b class-switching with ALCAM-CD6 co-stimulation in joint-draining lymph nodes during advanced inflammatory-erosive arthritis. *Frontiers in immunology*, 14, 1237498.

Guilliams M, et al. (2022) Spatial proteogenomics reveals distinct and evolutionarily conserved hepatic macrophage niches. *Cell*, 185(2), 379.

Al Moussawi K, et al. (2022) Mutant Ras and inflammation-driven skin tumorigenesis is suppressed via a JNK-iASPP-AP1 axis. *Cell reports*, 41(3), 111503.

Pandey V, et al. (2021) CXCL10/CXCR3 signaling contributes to an inflammatory microenvironment and its blockade enhances progression of murine pancreatic precancerous lesions. *eLife*, 10.

Young LV, et al. (2021) Loss of dystrophin expression in skeletal muscle is associated with senescence of macrophages and endothelial cells. *American journal of physiology. Cell physiology*, 321(1), C94.