

Resource Summary Report

Generated by RRID on Aug 1, 2026

RAT ANTI MOUSE F4/80

RRID:AB_2098196

Type: Antibody

Proper Citation

Bio-Rad Cat# MCA497, RRID:AB_2098196

Antibody Information

URL: http://antibodyregistry.org/AB_2098196

Proper Citation: Bio-Rad Cat# MCA497, RRID:AB_2098196

Target Antigen: F4/80

Host Organism: Rat

Clonality: monoclonal

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

Antibody Name: RAT ANTI MOUSE F4/80

Description: This monoclonal targets F4/80

Target Organism: mouse

Clone ID: Clone Cl:A3-1

Antibody ID: AB_2098196

Vendor: Bio-Rad

Catalog Number: MCA497

Record Creation Time: 20250820T043956+0000

Record Last Update: 20250820T193613+0000

Ratings and Alerts

- Independent validation by the NYU Langone was performed for: IHC. This antibody was found to have the following characteristics: Functional in human:FALSE, NonFunctional in human:FALSE, Functional in animal:FALSE, NonFunctional in animal:TRUE - NYU Langone's Center for Biospecimen Research and Development <https://med.nyu.edu/research/scientific-cores-shared-resources/center-biospecimen-research-development>

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

Data and Source Information

Source: [Antibody Registry](#)

Usage and Citation Metrics

We found 46 mentions in open access literature.

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

Power A, et al. (2026) Microenvironmental TGF- β is an early driver of NF1-associated tumor formation. Cell reports, 45(1), 116822.

Van Emmenis L, et al. (2025) Identification of CCL3 as a Schwann cell chemotactic factor essential for nerve regeneration. Cell reports, 44(2), 115322.

Bernal S, et al. (2025) Development of SOCS1 mimetics as novel approach to harmonize inflammation, oxidative stress, and fibrogenesis in metabolic dysfunction-associated steatotic liver disease. Redox biology, 84, 103670.

Hamby M, et al. (2024) Mice lacking ASIC2 and β ENaC are protected from high-fat-diet-induced metabolic syndrome. Frontiers in endocrinology, 15, 1449344.

Tsissios G, et al. (2024) Macrophages modulate fibrosis during newt lens regeneration. Stem cell research & therapy, 15(1), 141.

Schuster K, et al. (2024) Starvation in Mice Induces Liver Damage Associated with Autophagy. Nutrients, 16(8).

Horie M, et al. (2024) Exosomes secreted by ST3GAL5high cancer cells promote peritoneal dissemination by establishing a premetastatic microenvironment. Molecular oncology, 18(1), 21.

Lee SR, et al. (2024) Nox4-SH3YL1 complex is involved in diabetic nephropathy. iScience, 27(2), 108868.

van Elsas MJ, et al. (2023) Invasive margin tissue-resident macrophages of high CD163 expression impede responses to T cell-based immunotherapy. Journal for immunotherapy of cancer, 11(3).

Malong L, et al. (2023) Characterization of the structure and control of the blood-nerve barrier identifies avenues for therapeutic delivery. Developmental cell, 58(3), 174.

Tsissios G, et al. (2023) Macrophages modulate fibrosis during newt lens regeneration. Research square.

Gander-Bui HTT, et al. (2023) Targeted removal of macrophage-secreted interleukin-1 receptor antagonist protects against lethal *Candida albicans* sepsis. *Immunity*, 56(8), 1743.

Fujinuma S, et al. (2023) FOXK1 promotes nonalcoholic fatty liver disease by mediating mTORC1-dependent inhibition of hepatic fatty acid oxidation. *Cell reports*, 42(5), 112530.

Tran NL, et al. (2022) Continuous sensing of IFN γ by hepatic endothelial cells shapes a vascular antimetastatic barrier. *eLife*, 11.

Webb ER, et al. (2022) Cyclophosphamide depletes tumor infiltrating T regulatory cells and combined with anti-PD-1 therapy improves survival in murine neuroblastoma. *iScience*, 25(9), 104995.

Sandovici I, et al. (2022) The imprinted *Igf2-Igf2r* axis is critical for matching placental microvasculature expansion to fetal growth. *Developmental cell*, 57(1), 63.

Ide S, et al. (2022) Sex differences in resilience to ferroptosis underlie sexual dimorphism in kidney injury and repair. *Cell reports*, 41(6), 111610.

Opazo-Ríos L, et al. (2022) Meta-Inflammation and De Novo Lipogenesis Markers Are Involved in Metabolic Associated Fatty Liver Disease Progression in BTBR *ob/ob* Mice. *International journal of molecular sciences*, 23(7).

Teuwen LA, et al. (2021) Tumor vessel co-option probed by single-cell analysis. *Cell reports*, 35(11), 109253.

Ide S, et al. (2021) Ferroptotic stress promotes the accumulation of pro-inflammatory proximal tubular cells in maladaptive renal repair. *eLife*, 10.