

# Resource Summary Report

Generated by [RRID](#) on Sep 11, 2026

## Rac1

RRID:AB\_397977

Type: Antibody

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### Proper Citation

BD Biosciences Cat# 610650, RRID:AB\_397977

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### Antibody Information

**URL:** [http://antibodyregistry.org/AB\\_397977](http://antibodyregistry.org/AB_397977)

**Proper Citation:** BD Biosciences Cat# 610650, RRID:AB\_397977

**Target Antigen:** Rac1

**Host Organism:** mouse

**Clonality:** monoclonal

**Comments:** Immunofluorescence, Immunohistochemistry, Western blot

**Antibody Name:** Rac1

**Description:** This monoclonal targets Rac1

**Target Organism:** chicken, rat, canine, mouse, chickenbird, dog, human

**Antibody ID:** AB\_397977

**Vendor:** BD Biosciences

**Catalog Number:** 610650

**Record Creation Time:** 20231110T081140+0000

**Record Last Update:** 20260829T215050+0000

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### Ratings and Alerts

No rating or validation information has been found for Rac1.

No alerts have been found for Rac1.

## Data and Source Information

**Source:** [Antibody Registry](#)

## Usage and Citation Metrics

We found 18 mentions in open access literature.

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

Tzou FY, et al. (2025) Dihydroceramide desaturase modulates autolysosome maturation and ameliorates CRB1 retinopathy. *Biochimica et biophysica acta. Molecular basis of disease*, 1871(5), 167736.

Tamilkumar VN, et al. (2025) Epithelial fusion is mediated by a partial epithelial-mesenchymal transition. *Biology open*, 14(9).

Oevel K, et al. (2024) Rho GTPase signaling and mDia facilitate endocytosis via presynaptic actin. *eLife*, 12.

Yang Q, et al. (2023) Spontaneous recovery of reward memory through active forgetting of extinction memory. *Current biology : CB*, 33(5), 838.

Luo J, et al. (2022) TFPI is a colonic crypt receptor for TcdB from hypervirulent clade 2 *C. difficile*. *Cell*, 185(6), 980.

Kann AP, et al. (2022) An injury-responsive Rac-to-Rho GTPase switch drives activation of muscle stem cells through rapid cytoskeletal remodeling. *Cell stem cell*, 29(6), 933.

Tzou FY, et al. (2021) Dihydroceramide desaturase regulates the compartmentalization of Rac1 for neuronal oxidative stress. *Cell reports*, 35(2), 108972.

Payapilly A, et al. (2021) TIAM1-RAC1 promote small-cell lung cancer cell survival through antagonizing Nur77-induced BCL2 conformational change. *Cell reports*, 37(6), 109979.

Bu F, et al. (2021) Activation of neuronal Ras-related C3 botulinum toxin substrate 1 (Rac1) improves post-stroke recovery and axonal plasticity in mice. *Journal of neurochemistry*, 157(4), 1366.

Waters AM, et al. (2021) Targeting p130Cas- and microtubule-dependent MYC regulation sensitizes pancreatic cancer to ERK MAPK inhibition. *Cell reports*, 35(13), 109291.

O'Neil SD, et al. (2021) Action potential-coupled Rho GTPase signaling drives presynaptic plasticity. *eLife*, 10.

Hino N, et al. (2020) ERK-Mediated Mechanochemical Waves Direct Collective Cell Polarization. *Developmental cell*, 53(6), 646.

Lin C, et al. (2019) Fever Promotes T Lymphocyte Trafficking via a Thermal Sensory Pathway Involving Heat Shock Protein 90 and  $\alpha 4$  Integrins. *Immunity*, 50(1), 137.

Ito H, et al. (2019) Rho family GTPases, Rac and Cdc42, control the localization of neonatal dentate granule cells during brain development. *Hippocampus*, 29(7), 569.

Liu Y, et al. (2018) Social Isolation Induces Rac1-Dependent Forgetting of Social Memory. *Cell reports*, 25(2), 288.

Sumigra K, et al. (2018) Morphogenesis and Compartmentalization of the Intestinal Crypt. *Developmental cell*, 45(2), 183.

Jeannot P, et al. (2017) p27Kip1 promotes invadopodia turnover and invasion through the regulation of the PAK1/Cortactin pathway. *eLife*, 6.

Cervantes-Sandoval I, et al. (2016) Scribble Scaffolds a Signalingosome for Active Forgetting. *Neuron*, 90(6), 1230.