

Resource Summary Report

Generated by [RRID](#) on Sep 6, 2026

RAT ANTI MOUSE CD45

RRID:AB_321729

Type: Antibody

Proper Citation

Bio-Rad Cat# MCA1388, RRID:AB_321729

Antibody Information

URL: http://antibodyregistry.org/AB_321729

Proper Citation: Bio-Rad Cat# MCA1388, RRID:AB_321729

Target Antigen: CD45

Host Organism: Rat

Clonality: monoclonal

Comments: Applications: Immunoprecipitation, Flow Cytometry, Immunohistology - Frozen, Immunofluorescence

Antibody Name: RAT ANTI MOUSE CD45

Description: This monoclonal targets CD45

Target Organism: mouse

Clone ID: Clone IBL-3/16

Defining Citation: [PMID:20020538](#), [PMID:18022954](#), [PMID:18085589](#)

Antibody ID: AB_321729

Vendor: Bio-Rad

Catalog Number: MCA1388

Record Creation Time: 20231110T081429+0000

Record Last Update: 20260829T065255+0000

Ratings and Alerts

No rating or validation information has been found for RAT ANTI MOUSE CD45.

No alerts have been found for RAT ANTI MOUSE CD45.

Data and Source Information

Source: [Antibody Registry](#)

Usage and Citation Metrics

We found 12 mentions in open access literature.

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

Davis AC, et al. (2026) Interleukin-1 receptor-1 signaling mediates neuroinflammation, neuronal injury, and cognitive decline after diffuse traumatic brain injury. *Brain, behavior, and immunity*, 135, 106524.

Pereyra G, et al. (2025) SFRP1 upregulation causes hippocampal synaptic dysfunction and memory impairment. *Cell reports*, 44(4), 115535.

Ma W, et al. (2024) Human-induced pluripotent stem cell-derived microglia integrate into mouse retina and recapitulate features of endogenous microglia. *eLife*, 12.

Nam J, et al. (2024) Delivery of CDNF by AAV-mediated gene transfer protects dopamine neurons and regulates ER stress and inflammation in an acute MPTP mouse model of Parkinson's disease. *Scientific reports*, 14(1), 16487.

Süß P, et al. (2020) Chronic Peripheral Inflammation Causes a Region-Specific Myeloid Response in the Central Nervous System. *Cell reports*, 30(12), 4082.

Werneburg S, et al. (2020) Targeted Complement Inhibition at Synapses Prevents Microglial Synaptic Engulfment and Synapse Loss in Demyelinating Disease. *Immunity*, 52(1), 167.

Liu X, et al. (2019) Cell-Type-Specific Interleukin 1 Receptor 1 Signaling in the Brain Regulates Distinct Neuroimmune Activities. *Immunity*, 50(2), 317.

Nie X, et al. (2018) The Innate Immune Receptors TLR2/4 Mediate Repeated Social Defeat Stress-Induced Social Avoidance through Prefrontal Microglial Activation. *Neuron*, 99(3), 464.

Witcher KG, et al. (2018) Traumatic brain injury-induced neuronal damage in the somatosensory cortex causes formation of rod-shaped microglia that promote astrogliosis and persistent neuroinflammation. *Glia*, 66(12), 2719.

Da Ros F, et al. (2017) Targeting Interleukin-1? Protects from Aortic Aneurysms Induced by Disrupted Transforming Growth Factor ? Signaling. *Immunity*, 47(5), 959.

Huynh TV, et al. (2017) Age-Dependent Effects of apoE Reduction Using Antisense Oligonucleotides in a Model of β -amyloidosis. *Neuron*, 96(5), 1013.

Lee S, et al. (2014) Opposing effects of membrane-anchored CX3CL1 on amyloid and tau pathologies via the p38 MAPK pathway. *The Journal of neuroscience : the official journal of the Society for Neuroscience*, 34(37), 12538.