

Resource Summary Report

Generated by NIF on Jul 29, 2026

CD45

RRID:AB_394608

Type: Antibody

Proper Citation

BD Biosciences Cat# 553078, RRID:AB_394608

Antibody Information

URL: http://antibodyregistry.org/AB_394608

Proper Citation: BD Biosciences Cat# 553078, RRID:AB_394608

Target Antigen: CD45

Host Organism: rat

Clonality: monoclonal

Comments: Flow cytometry

Antibody Name: CD45

Description: This monoclonal targets CD45

Target Organism: mouse

Antibody ID: AB_394608

Vendor: BD Biosciences

Catalog Number: 553078

Record Creation Time: 20250820T045625+0000

Record Last Update: 20250820T202047+0000

Ratings and Alerts

No rating or validation information has been found for CD45.

No alerts have been found for CD45.

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 [NIF](#) .

Lisi-Vega LE, et al. (2025) Bone marrow mesenchymal stromal cells support translation in refractory acute myeloid leukemia. *Cell reports*, 44(1), 115151.

Wang YX, et al. (2025) Multiomic profiling reveals that prostaglandin E2 reverses aged muscle stem cell dysfunction, leading to increased regeneration and strength. *Cell stem cell*, 32(7), 1154.

Bonora M, et al. (2024) A mitochondrial NADPH-cholesterol axis regulates extracellular vesicle biogenesis to support hematopoietic stem cell fate. *Cell stem cell*, 31(3), 359.

Zhang T, et al. (2024) FGD5 in basal cells induces CXCL14 secretion that initiates a feedback loop to promote murine mammary epithelial growth and differentiation. *Developmental cell*, 59(16), 2085.

Rotterman TM, et al. (2024) Modulation of central synapse remodeling after remote peripheral injuries by the CCL2-CCR2 axis and microglia. *Cell reports*, 43(2), 113776.

Roy RM, et al. (2023) Lactate produced by alveolar type II cells suppresses inflammatory alveolar macrophages in acute lung injury. *FASEB journal : official publication of the Federation of American Societies for Experimental Biology*, 37(12), e23316.

Porpiglia E, et al. (2022) Elevated CD47 is a hallmark of dysfunctional aged muscle stem cells that can be targeted to augment regeneration. *Cell stem cell*, 29(12), 1653.

Tichy ED, et al. (2021) Persistent NF- κ B activation in muscle stem cells induces proliferation-independent telomere shortening. *Cell reports*, 35(6), 109098.

Hilfenhaus G, et al. (2021) A High-Content Screen Identifies Drugs That Restrict Tumor Cell Extravasation across the Endothelial Barrier. *Cancer research*, 81(3), 619.

Tichy ED, et al. (2021) Telomere length assessments of muscle stem cells in rodent and human skeletal muscle sections. *STAR protocols*, 2(4), 100830.

Geng A, et al. (2020) A novel function of R-spondin1 in regulating estrogen receptor expression independent of Wnt/ β -catenin signaling. *eLife*, 9.

Zhao R, et al. (2020) Plasmin improves blood-gas barrier function in oedematous lungs by cleaving epithelial sodium channels. *British journal of pharmacology*, 177(13), 3091.

Chung CY, et al. (2019) Single-Cell Chromatin Analysis of Mammary Gland Development Reveals Cell-State Transcriptional Regulators and Lineage Relationships. *Cell reports*,

29(2), 495.

Ho YH, et al. (2019) Remodeling of Bone Marrow Hematopoietic Stem Cell Niches Promotes Myeloid Cell Expansion during Premature or Physiological Aging. *Cell stem cell*, 25(3), 407.

Yucel N, et al. (2019) Glucose Metabolism Drives Histone Acetylation Landscape Transitions that Dictate Muscle Stem Cell Function. *Cell reports*, 27(13), 3939.

Boscolo Sesillo F, et al. (2019) Muscle Stem Cells Give Rise to Rhabdomyosarcomas in a Severe Mouse Model of Duchenne Muscular Dystrophy. *Cell reports*, 26(3), 689.

Dravis C, et al. (2018) Epigenetic and Transcriptomic Profiling of Mammary Gland Development and Tumor Models Disclose Regulators of Cell State Plasticity. *Cancer cell*, 34(3), 466.

Sigl V, et al. (2016) RANKL/RANK control Brca1 mutation- . *Cell research*, 26(7), 761.