

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.

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.

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

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.

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.

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

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.

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.