

Resource Summary Report

Generated by [RRID](#) on Aug 5, 2026

SENP3 (D20A10) XP Rabbit mAb

RRID:AB_10694546

Type: Antibody

Proper Citation

Cell Signaling Technology Cat# 5591, RRID:AB_10694546

Antibody Information

URL: http://antibodyregistry.org/AB_10694546

Proper Citation: Cell Signaling Technology Cat# 5591, RRID:AB_10694546

Target Antigen: SENP3 (D20A10) XP Rabbit mAb

Host Organism: rabbit

Clonality: monoclonal

Comments: Applications: W, IP, IF-IC. Consolidation on 11/2018: AB_10694546, AB_10695540.

Antibody Name: SENP3 (D20A10) XP Rabbit mAb

Description: This monoclonal targets SENP3 (D20A10) XP Rabbit mAb

Target Organism: rat, h, m, mouse, r, human, mk

Antibody ID: AB_10694546

Vendor: Cell Signaling Technology

Catalog Number: 5591

Record Creation Time: 20250820T043600+0000

Record Last Update: 20250820T192445+0000

Ratings and Alerts

No rating or validation information has been found for SENP3 (D20A10) XP Rabbit mAb.

No alerts have been found for SENP3 (D20A10) XP Rabbit mAb.

Data and Source Information

Source: [Antibody Registry](#)

Usage and Citation Metrics

We found 9 mentions in open access literature.

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

Hwang SP, et al. (2025) TRMT1L-catalyzed m2G27 on tyrosine tRNA is required for efficient mRNA translation and cell survival under oxidative stress. Cell reports, 44(1), 115167.

Xiong X, et al. (2025) SENP3 protects hepatocyte from pyroptosis during acute liver injury through deSUMOylation of HNRNPL. iScience, 28(8), 113067.

Liu Y, et al. (2023) Mitochondrial SENP2 regulates the assembly of SDH complex under metabolic stress. Cell reports, 42(2), 112041.

Amrute-Nayak M, et al. (2022) SENP7 deSUMOylase-governed transcriptional program coordinates sarcomere assembly and is targeted in muscle atrophy. Cell reports, 41(8), 111702.

Yamada S, et al. (2021) Drp1 SUMO/deSUMOylation by Senp5 isoforms influences ER tubulation and mitochondrial dynamics to regulate brain development. iScience, 24(12), 103484.

Keiten-Schmitz J, et al. (2020) The Nuclear SUMO-Targeted Ubiquitin Quality Control Network Regulates the Dynamics of Cytoplasmic Stress Granules. Molecular cell, 79(1), 54.

Theurillat I, et al. (2020) Extensive SUMO Modification of Repressive Chromatin Factors Distinguishes Pluripotent from Somatic Cells. Cell reports, 32(11), 108146.

Nayak A, et al. (2019) Regulation of SETD7 Methyltransferase by SENP3 Is Crucial for Sarcomere Organization and Cachexia. Cell reports, 27(9), 2725.

Akiyama H, et al. (2018) Synaptic localization of the SUMOylation-regulating protease SENP5 in the adult mouse brain. The Journal of comparative neurology, 526(6), 990.