Resource Summary Report

Generated by FDI Lab - SciCrunch.org on May 7, 2025

xCT/SLC7A11 (D2M7A) Rabbit Antibody

RRID:AB_2687474
Type: Antibody

Proper Citation

(Cell Signaling Technology Cat# 12691, RRID:AB_2687474)

Antibody Information

URL: http://antibodyregistry.org/AB_2687474

Proper Citation: (Cell Signaling Technology Cat# 12691, RRID:AB_2687474)

Target Antigen: xCT/SLC7A11

Host Organism: rabbit

Clonality: monoclonal

Comments: Applications: W, IP
Info: Independent validation by the NYU Lagone was performed for: IHC. This antibody was found to have the following characteristics: Functional in human:FALSE, NonFunctional in human:FALSE, Functional in animal:FALSE, NonFunctional in animal:FALSE

Antibody Name: xCT/SLC7A11 (D2M7A) Rabbit Antibody

Description: This monoclonal targets xCT/SLC7A11

Target Organism: human

Clone ID: D2M7A

Defining Citation: PMID:28648777

Antibody ID: AB_2687474

Vendor: Cell Signaling Technology

Catalog Number: 12691

Alternative Catalog Numbers: 12691S

Record Creation Time: 20231110T034042+0000

Record Last Update: 20240725T071108+0000

Ratings and Alerts

- Independent validation by the NYU Lagone was performed for: IHC. This antibody was found to have the following characteristics: Functional in human:FALSE, NonFunctional in human:FALSE, Functional in animal:FALSE, NonFunctional in animal:FALSE - NYU Langone's Center for Biospecimen Research and Development https://med.nyu.edu/research/scientific-cores-shared-resources/center-biospecimen-research-development

No alerts have been found for xCT/SLC7A11 (D2M7A) Rabbit Antibody.

Data and Source Information

Source: Antibody Registry

Usage and Citation Metrics

We found 34 mentions in open access literature.

Listed below are recent publications. The full list is available at FDI Lab - SciCrunch.org.

Deng JL, et al. (2024) Herpotrichone A Exerts Neuroprotective Effects by Relieving Ferroptosis. Journal of agricultural and food chemistry, 72(31), 17356.

Mao C, et al. (2024) Unraveling ETC complex I function in ferroptosis reveals a potential ferroptosis-inducing therapeutic strategy for LKB1-deficient cancers. Molecular cell, 84(10), 1964.

Cordova RA, et al. (2024) Coordination between the eIF2 kinase GCN2 and p53 signaling supports purine metabolism and the progression of prostate cancer. Science signaling, 17(864), eadp1375.

Zou Z, et al. (2024) ATF4-SLC7A11-GSH axis mediates the acquisition of immunosuppressive properties by activated CD4+ T cells in low arginine condition. Cell reports, 43(4), 113995.

Yu D, et al. (2024) Feedforward cysteine regulation maintains melanoma differentiation state and limits metastatic spread. Cell reports, 43(7), 114484.

Yang G, et al. (2024) Spliceosomal GTPase Eftud2 deficiency-triggered ferroptosis leads to

Purkinje cell degeneration. Neuron, 112(20), 3452.

Kreß JKC, et al. (2023) The integrated stress response effector ATF4 is an obligatory metabolic activator of NRF2. Cell reports, 42(7), 112724.

Yang Z, et al. (2023) HIF-1? drives resistance to ferroptosis in solid tumors by promoting lactate production and activating SLC1A1. Cell reports, 42(8), 112945.

Zheng Y, et al. (2023) Modulation of cellular metabolism by protein crotonylation regulates pancreatic cancer progression. Cell reports, 42(7), 112666.

Lei S, et al. (2023) AMER1 deficiency promotes the distant metastasis of colorectal cancer by inhibiting SLC7A11- and FTL-mediated ferroptosis. Cell reports, 42(9), 113110.

Han Y, et al. (2023) IL-1?-associated NNT acetylation orchestrates iron-sulfur cluster maintenance and cancer immunotherapy resistance. Molecular cell, 83(11), 1887.

He J, et al. (2023) Reprogramming of iron metabolism confers ferroptosis resistance in ECM-detached cells. iScience, 26(6), 106827.

Zhang W, et al. (2023) SMURF2 predisposes cancer cell toward ferroptosis in GPX4-independent manners by promoting GSTP1 degradation. Molecular cell, 83(23), 4352.

Tang L, et al. (2023) TXNDC12 inhibits lipid peroxidation and ferroptosis. iScience, 26(12), 108393.

LaPak KM, et al. (2023) Proximity proteomic analysis of the NRF family reveals the Parkinson's disease protein ZNF746/PARIS as a co-complexed repressor of NRF2. Science signaling, 16(815), eadi9018.

Fiore A, et al. (2022) Kynurenine importation by SLC7A11 propagates anti-ferroptotic signaling. Molecular cell, 82(5), 920.

Parida PK, et al. (2022) Metabolic diversity within breast cancer brain-tropic cells determines metastatic fitness. Cell metabolism, 34(1), 90.

Cordova RA, et al. (2022) GCN2 eIF2 kinase promotes prostate cancer by maintaining amino acid homeostasis. eLife, 11.

Wang X, et al. (2021) Stem Cell Factor SOX2 Confers Ferroptosis Resistance in Lung Cancer via Upregulation of SLC7A11. Cancer research, 81(20), 5217.

Peng L, et al. (2021) Redox-sensitive cyclophilin A elicits chemoresistance through realigning cellular oxidative status in colorectal cancer. Cell reports, 37(9), 110069.