

Resource Summary Report

Generated by [RRID](#) on Jul 28, 2026

Anti-PHGDH antibody produced in rabbit

RRID:AB_1855299

Type: Antibody

Proper Citation

Sigma-Aldrich Cat# HPA021241, RRID:AB_1855299

Antibody Information

URL: http://antibodyregistry.org/AB_1855299

Proper Citation: Sigma-Aldrich Cat# HPA021241, RRID:AB_1855299

Target Antigen: Human PHGDH

Host Organism: rabbit

Clonality: unknown

Comments: Vendor recommendations: Immunohistochemistry; Other; Immunohistochemistry (formalin-fixed, paraffin-embedded sections), Protein Array
Info: Independent validation by the NYU Lagone was performed for: IHC. This antibody was found to have the following characteristics: Functional in human:TRUE, NonFunctional in human:FALSE, Functional in animal:TRUE, NonFunctional in animal:FALSE

Antibody Name: Anti-PHGDH antibody produced in rabbit

Description: This unknown targets Human PHGDH

Target Organism: human

Antibody ID: AB_1855299

Vendor: Sigma-Aldrich

Catalog Number: HPA021241

Record Creation Time: 20250820T025202+0000

Record Last Update: 20250820T144352+0000

Ratings and Alerts

- Antibody validation available from The Human Protein Atlas - Human Protein Atlas <https://www.proteinatlas.org/search/HPA021241>

No alerts have been found for Anti-PHGDH antibody produced in rabbit.

Data and Source Information

Source: [Antibody Registry](#)

Usage and Citation Metrics

We found 25 mentions in open access literature.

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

Jasani N, et al. (2025) PHGDH Induction by MAPK Is Essential for Melanoma Formation and Creates an Actionable Metabolic Vulnerability. *Cancer research*, 85(2), 314.

Xu J, et al. (2025) Autoimmune disease risk gene ANKRD55 promotes TH17 effector function through metabolic modulation. *The Journal of experimental medicine*, 222(11).

Walvekar AS, et al. (2025) Failure to repair damaged NAD(P)H blocks de novo serine synthesis in human cells. *Cellular & molecular biology letters*, 30(1), 3.

Ding J, et al. (2024) MYC Drives mRNA Pseudouridylation to Mitigate Proliferation-Induced Cellular Stress during Cancer Development. *Cancer research*, 84(23), 4031.

Benzarti M, et al. (2024) PKM2 diverts glycolytic flux in dependence on mitochondrial one-carbon cycle. *Cell reports*, 43(3), 113868.

Alvarez Y, et al. (2024) Central carbon metabolism exhibits unique characteristics during the handling of fungal patterns by monocyte-derived dendritic cells. *Redox biology*, 73, 103187.

Lim EW, et al. (2024) Serine and glycine physiology reversibly modulate retinal and peripheral nerve function. *Cell metabolism*, 36(10), 2315.

Wu YQ, et al. (2023) Low glucose metabolite 3-phosphoglycerate switches PHGDH from serine synthesis to p53 activation to control cell fate. *Cell research*, 33(11), 835.

Zhang D, et al. (2023) PHGDH-mediated endothelial metabolism drives glioblastoma resistance to chimeric antigen receptor T cell immunotherapy. *Cell metabolism*, 35(3), 517.

Gargiulo E, et al. (2023) Extracellular Vesicle Secretion by Leukemia Cells In Vivo Promotes CLL Progression by Hampering Antitumor T-cell Responses. *Blood cancer discovery*, 4(1), 54.

Altea-Manzano P, et al. (2022) Reversal of mitochondrial malate dehydrogenase 2 enables anaplerosis via redox rescue in respiration-deficient cells. *Molecular cell*, 82(23), 4537.

Choi BH, et al. (2022) Lineage-specific silencing of PSAT1 induces serine auxotrophy and sensitivity to dietary serine starvation in luminal breast tumors. *Cell reports*, 38(3), 110278.

Kleffman K, et al. (2022) Melanoma-Secreted Amyloid Beta Suppresses Neuroinflammation and Promotes Brain Metastasis. *Cancer discovery*, 12(5), 1314.

Kiweler N, et al. (2022) Mitochondria preserve an autarkic one-carbon cycle to confer growth-independent cancer cell migration and metastasis. *Nature communications*, 13(1), 2699.

Rinaldi G, et al. (2021) In Vivo Evidence for Serine Biosynthesis-Defined Sensitivity of Lung Metastasis, but Not of Primary Breast Tumors, to mTORC1 Inhibition. *Molecular cell*, 81(2), 386.

Fan Z, et al. (2021) Exercise-induced angiogenesis is dependent on metabolically primed ATF3/4+ endothelial cells. *Cell metabolism*, 33(9), 1793.

Li X, et al. (2021) ATF3 promotes the serine synthesis pathway and tumor growth under dietary serine restriction. *Cell reports*, 36(12), 109706.

Rathore R, et al. (2021) Metabolic compensation activates pro-survival mTORC1 signaling upon 3-phosphoglycerate dehydrogenase inhibition in osteosarcoma. *Cell reports*, 34(4), 108678.

Wilson JL, et al. (2020) Inverse Data-Driven Modeling and Multiomics Analysis Reveals Phgdh as a Metabolic Checkpoint of Macrophage Polarization and Proliferation. *Cell reports*, 30(5), 1542.

Banh RS, et al. (2020) Neurons Release Serine to Support mRNA Translation in Pancreatic Cancer. *Cell*, 183(5), 1202.