Resource Summary Report

Generated by dkNET on Aug 4, 2026

4E-BP1 Antibody

RRID:AB_331692
Type: Antibody

Proper Citation

Cell Signaling Technology Cat# 9452, RRID:AB_331692

Antibody Information

URL: http://antibodyregistry.org/AB_331692

Proper Citation: Cell Signaling Technology Cat# 9452, RRID:AB_331692

Target Antigen: 4E-BP1

Host Organism: rabbit

Clonality: polyclonal

Comments: Applications: W, IP. Consolidation: AB_10693791, AB_823410. Info: Used By NYUIHC-582.
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:FALSE, NonFunctional in animal:FALSE

Antibody Name: 4E-BP1 Antibody

Description: This polyclonal targets 4E-BP1

Target Organism: monkey, rat, mouse, human

Antibody ID: AB_331692

Vendor: Cell Signaling Technology

Catalog Number: 9452

Alternative Catalog Numbers: 9452S, 9452L

Record Creation Time: 20250820T021230+0000

Record Last Update: 20250820T125839+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:TRUE, 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 4E-BP1 Antibody.

Data and Source Information

Source: Antibody Registry

Usage and Citation Metrics

We found 96 mentions in open access literature.

Listed below are recent publications. The full list is available at dkNET .

Yamauchi T, et al. (2026) Valine availability controls oncogenic cell-cycle progression through translation of D-type cyclins. Biochemical pharmacology, 246, 117706.

Li G, et al. (2026) Mitochondrial VHL rewires cell metabolism in hypoxia. Cell metabolism, 38(1), 174.

Li Y, et al. (2025) Lactylation of mTOR enhances autophagy in skeletal muscle during exercise. Cell chemical biology, 32(11), 1367.

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.

Kitab B, et al. (2025) Ribonucleotide reductase subunit M2 mediates the mTOR pathway to recruit furin endoprotease and promote maturation of dengue virus. iScience, 28(12), 113998.

Nishikubo K, et al. (2025) Sustained reductions in valine and isoleucine mediate anti-cancer pharmacological effects of inhibiting amino acid transporter LAT1 in cancer cells. Cancer & metabolism, 13(1), 46.

Zhang F, et al. (2025) RHEB neddylation by the UBE2F-SAG axis enhances mTORC1 activity and aggravates liver tumorigenesis. The EMBO journal, 44(4), 1185.

Thalalla Gamage S, et al. (2025) Transfer RNA acetylation regulates in vivo mammalian stress signaling. Science advances, 11(12), eads2923.

Budagyan K, et al. (2025) KRAS G12V mutation-selective requirement for ACSS2 in colorectal adenoma formation. Cell reports, 44(4), 115444.

Tiburcio PDB, et al. (2025) Suppressing proteasome activity enhances sensitivity to actinomycin D in diffuse anaplastic Wilms tumor. Cell reports. Medicine, 6(5), 102133.

Remy D, et al. (2024) TFEB triggers a matrix degradation and invasion program in triple-negative breast cancer cells upon mTORC1 repression. Developmental cell.

Tiburcio PDB, et al. (2024) Actinomycin D and bortezomib disrupt protein homeostasis in Wilms tumor. bioRxiv : the preprint server for biology.

Zhu M, et al. (2024) PKD1 mutant clones within cirrhotic livers inhibit steatohepatitis without promoting cancer. Cell metabolism, 36(8), 1711.

Turgu B, et al. (2023) The HACE1 E3 ligase mediates RAC1-dependent control of mTOR signaling complexes. EMBO reports, 24(12), e56815.

Mendez Garcia MF, et al. (2023) Increased cardiac PFK-2 protects against high-fat diet-induced cardiomyopathy and mediates beneficial systemic metabolic effects. iScience, 26(7), 107131.

Jiang C, et al. (2023) Ring domains are essential for GATOR2-dependent mTORC1 activation. Molecular cell, 83(1), 74.

Paulussen KJ, et al. (2023) Underpinning the Food Matrix Regulation of Postexercise Myofibrillar Protein Synthesis by Comparing Salmon Ingestion With the Sum of Its Isolated Nutrients in Healthy Young Adults. The Journal of nutrition, 153(5), 1359.

Festa BP, et al. (2023) Microglial-to-neuronal CCR5 signaling regulates autophagy in neurodegeneration. Neuron, 111(13), 2021.

Funasaki S, et al. (2023) A stepwise and digital pattern of RSK phosphorylation determines the outcome of thymic selection. iScience, 26(9), 107552.

Southwell N, et al. (2023) A coordinated multiorgan metabolic response contributes to human mitochondrial myopathy. EMBO molecular medicine, e16951.