Resource Summary Report

Generated by dkNET on Sep 6, 2026

GCN2 Antibody

RRID:AB_2277617
Type: Antibody

Proper Citation

Cell Signaling Technology Cat# 3302, RRID:AB_2277617

Antibody Information

URL: http://antibodyregistry.org/AB_2277617

Proper Citation: Cell Signaling Technology Cat# 3302, RRID:AB_2277617

Target Antigen: EIF2AK4

Host Organism: rabbit

Clonality: polyclonal

Comments: Applications: W, IP. Consolidation on 10/2018: AB_10694800, AB_2277617.

Antibody Name: GCN2 Antibody

Description: This polyclonal targets EIF2AK4

Target Organism: rat, mouse, human

Antibody ID: AB_2277617

Vendor: Cell Signaling Technology

Catalog Number: 3302

Record Creation Time: 20231110T045333+0000

Record Last Update: 20260830T010343+0000

Ratings and Alerts

No rating or validation information has been found for GCN2 Antibody.

No alerts have been found for GCN2 Antibody.

Data and Source Information

Source: Antibody Registry

Usage and Citation Metrics

We found 31 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.

Mao Y, et al. (2026) AMPK?2 signals amino acid insufficiency to inhibit protein synthesis. Cell metabolism, 38(1), 192.

Vind AC, et al. (2026) Mechanism of RACK1-dependent ZAK? activation at stalled and collided ribosomes. Molecular cell, 86(12), 2341.

Liu C, et al. (2026) Gcn2 deficiency triggers anemia and hypoxic intolerance in zebrafish. Cell reports, 45(4), 117192.

Staschke KA, et al. (2025) Cryo-EM reveals how ASX-173 inhibits human asparagine synthetase to activate the integrated stress response. bioRxiv : the preprint server for biology.

Champagne J, et al. (2025) Adoptive T cell therapy targeting an inducible and broadly shared product of aberrant mRNA translation. Immunity, 58(1), 247.

Teisseire M, et al. (2025) De Novo Serine Synthesis Is a Metabolic Vulnerability That Can Be Exploited to Overcome Sunitinib Resistance in Advanced Renal Cell Carcinoma. Cancer research, 85(10), 1857.

Ali RH, et al. (2025) A methyltransferase-independent role for METTL1 in tRNA aminoacylation and oncogenic transformation. Molecular cell, 85(5), 948.

Coria AR, et al. (2025) The integrated stress response regulates 18S nonfunctional rRNA decay in mammals. Molecular cell, 85(4), 787.

Xu S, et al. (2025) The clinical antiprotozoal drug halofuginone promotes weight loss by elevating GDF15 and FGF21. Science advances, 11(13), eadt3142.

Sinha NK, et al. (2024) The ribotoxic stress response drives UV-mediated cell death. Cell, 187(14), 3652.

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.

Chang CF, et al. (2024) Brown adipose tissue CoQ deficiency activates the integrated stress response and FGF21-dependent mitohormesis. The EMBO journal, 43(2), 168.

Hooshmandi M, et al. (2023) Excitatory neuron-specific suppression of the integrated stress response contributes to autism-related phenotypes in fragile X syndrome. Neuron, 111(19), 3028.

Oltion K, et al. (2023) An E3 ligase network engages GCN1 to promote the degradation of translation factors on stalled ribosomes. Cell, 186(2), 346.

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

Hsu JC, et al. (2022) Viperin triggers ribosome collision-dependent translation inhibition to restrict viral replication. Molecular cell, 82(9), 1631.

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

Li C, et al. (2022) Amino acid catabolism regulates hematopoietic stem cell proteostasis via a GCN2-eIF2? axis. Cell stem cell, 29(7), 1119.

Nofal M, et al. (2022) GCN2 adapts protein synthesis to scavenging-dependent growth. Cell systems, 13(2), 158.