

Resource Summary Report

Generated by [NIF](#) on Jul 31, 2026

Anti-Glutamine Synthetase antibody produced in rabbit

RRID:AB_259853

Type: Antibody

Proper Citation

Sigma-Aldrich Cat# G2781, RRID:AB_259853

Antibody Information

URL: http://antibodyregistry.org/AB_259853

Proper Citation: Sigma-Aldrich Cat# G2781, RRID:AB_259853

Target Antigen: Glutamine Synthetase

Host Organism: rabbit

Clonality: unknown

Comments: Vendor recommendations: Immunohistochemistry; Western Blot; Immunohistochemistry (formalin-fixed, paraffin-embedded), Immunoblotting

Antibody Name: Anti-Glutamine Synthetase antibody produced in rabbit

Description: This unknown targets Glutamine Synthetase

Target Organism: rat

Antibody ID: AB_259853

Vendor: Sigma-Aldrich

Catalog Number: G2781

Record Creation Time: 20250820T011147+0000

Record Last Update: 20250820T101701+0000

Ratings and Alerts

No rating or validation information has been found for Anti-Glutamine Synthetase antibody produced in rabbit.

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

Data and Source Information

Source: [Antibody Registry](#)

Usage and Citation Metrics

We found 20 mentions in open access literature.

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

Guerin DJ, et al. (2025) Notch Is Required for Neural Progenitor Proliferation During Embryonic Eye Regrowth. International journal of molecular sciences, 26(6).

Wagner VA, et al. (2025) Astrocytic GABA controls fidelity of temporal cortical processing in Fragile X Syndrome. Neurobiology of disease, 219, 107233.

Pessino G, et al. (2024) Differential effect of asparagine and glutamine removal on three adenocarcinoma cell lines. Heliyon, 10(15), e35789.

Rossetti GG, et al. (2024) In vivo DNA replication dynamics unveil aging-dependent replication stress. Cell, 187(22), 6220.

Riley VA, et al. (2023) Tsc2 coordinates neuroprogenitor differentiation. iScience, 26(12), 108442.

Hoehme S, et al. (2023) Digital twin demonstrates significance of biomechanical growth control in liver regeneration after partial hepatectomy. iScience, 26(1), 105714.

Balkaya M, et al. (2023) Conditional deletion of LRRC8A in the brain reduces stroke damage independently of swelling-activated glutamate release. iScience, 26(5), 106669.

Reyes-Ortega P, et al. (2022) Anorexia disrupts glutamate-glutamine homeostasis associated with astroglia in the prefrontal cortex of young female rats. Behavioural brain research, 420, 113715.

Bonilla-Pons SÀ, et al. (2022) Müller glia fused with adult stem cells undergo neural differentiation in human retinal models. EBioMedicine, 77, 103914.

Hu S, et al. (2022) Single-cell spatial transcriptomics reveals a dynamic control of metabolic zonation and liver regeneration by endothelial cell Wnt2 and Wnt9b. Cell reports. Medicine, 3(10), 100754.

Balouch B, et al. (2021) Conventional immunomarkers stain a fraction of astrocytes in vitro: A comparison of rat cortical and spinal cord astrocytes in naïve and stimulated cultures. Journal of neuroscience research, 99(3), 806.

Gianmoena K, et al. (2021) Epigenomic and transcriptional profiling identifies impaired glyoxylate detoxification in NAFLD as a risk factor for hyperoxaluria. *Cell reports*, 36(8), 109526.

Wilson CS, et al. (2021) Late adolescence mortality in mice with brain-specific deletion of the volume-regulated anion channel subunit LRRC8A. *FASEB journal : official publication of the Federation of American Societies for Experimental Biology*, 35(10), e21869.

Iwai H, et al. (2021) Tissue-resident M2 macrophages directly contact primary sensory neurons in the sensory ganglia after nerve injury. *Journal of neuroinflammation*, 18(1), 227.

Bott AJ, et al. (2019) Glutamine Anabolism Plays a Critical Role in Pancreatic Cancer by Coupling Carbon and Nitrogen Metabolism. *Cell reports*, 29(5), 1287.

Merienne N, et al. (2019) Cell-Type-Specific Gene Expression Profiling in Adult Mouse Brain Reveals Normal and Disease-State Signatures. *Cell reports*, 26(9), 2477.

Zhou Y, et al. (2019) Selective deletion of glutamine synthetase in the mouse cerebral cortex induces glial dysfunction and vascular impairment that precede epilepsy and neurodegeneration. *Neurochemistry international*, 123, 22.

Adebayo Michael AO, et al. (2019) Inhibiting Glutamine-Dependent mTORC1 Activation Ameliorates Liver Cancers Driven by β -Catenin Mutations. *Cell metabolism*, 29(5), 1135.

Moon KH, et al. (2018) Differential Expression of NF2 in Neuroepithelial Compartments Is Necessary for Mammalian Eye Development. *Developmental cell*, 44(1), 13.

Hammoum I, et al. (2018) Retinal dysfunction parallels morphologic alterations and precede clinically detectable vascular alterations in Meriones shawi, a model of type 2 diabetes. *Experimental eye research*, 176, 174.