

Resource Summary Report

Generated by [RRID](#) on Sep 4, 2026

Glucose Transporter GLUT4 antibody

RRID:AB_305554

Type: Antibody

Proper Citation

Abcam Cat# ab654, RRID:AB_305554

Antibody Information

URL: http://antibodyregistry.org/AB_305554

Proper Citation: Abcam Cat# ab654, RRID:AB_305554

Target Antigen: Glucose Transporter GLUT4

Host Organism: rabbit

Clonality: polyclonal

Comments: validation status unknown, seller recommendations provided in 2012: Immunocytochemistry; Immunohistochemistry; Immunoprecipitation; Other; Western Blot; Immunocytochemistry, Immunocytochemistry/Immunofluorescence, Immunohistochemistry-Fr, IM, Immunoprecipitation, Western Blot

Antibody Name: Glucose Transporter GLUT4 antibody

Description: This polyclonal targets Glucose Transporter GLUT4

Target Organism: rat, mouse, human

Antibody ID: AB_305554

Vendor: Abcam

Catalog Number: ab654

Record Creation Time: 20231110T045005+0000

Record Last Update: 20260828T231159+0000

Ratings and Alerts

No rating or validation information has been found for Glucose Transporter GLUT4 antibody.

No alerts have been found for Glucose Transporter GLUT4 antibody.

Data and Source Information

Source: [Antibody Registry](#)

Usage and Citation Metrics

We found 10 mentions in open access literature.

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

Zhang K, et al. (2024) Glucose restriction enhances oxidative fiber formation: A multi-omic signal network involving AMPK and CaMK2. *iScience*, 27(1), 108590.

Kent NL, et al. (2022) Maternal Hypothyroidism in Rats Reduces Placental Lactogen, Lowers Insulin Levels, and Causes Glucose Intolerance. *Endocrinology*, 163(2).

Zhao H, et al. (2022) Hyperuricemia contributes to glucose intolerance of hepatic inflammatory macrophages and impairs the insulin signaling pathway via IRS2-proteasome degradation. *Frontiers in immunology*, 13, 931087.

Jiang Z, et al. (2021) Isthmin-1 is an adipokine that promotes glucose uptake and improves glucose tolerance and hepatic steatosis. *Cell metabolism*, 33(9), 1836.

Flockhart M, et al. (2021) Excessive exercise training causes mitochondrial functional impairment and decreases glucose tolerance in healthy volunteers. *Cell metabolism*, 33(5), 957.

Batista TM, et al. (2020) A Cell-Autonomous Signature of Dysregulated Protein Phosphorylation Underlies Muscle Insulin Resistance in Type 2 Diabetes. *Cell metabolism*, 32(5), 844.

von Leden RE, et al. (2019) Aging alters glucose uptake in the na⁺ve and injured rodent spinal cord. *Neuroscience letters*, 690, 23.

Tian Y, et al. (2018) cGMP/PKG-I Pathway-Mediated GLUT1/4 Regulation by NO in Female Rat Granulosa Cells. *Endocrinology*, 159(2), 1147.

Kanow MA, et al. (2017) Biochemical adaptations of the retina and retinal pigment epithelium support a metabolic ecosystem in the vertebrate eye. *eLife*, 6.

Tian Y, et al. (2017) Nitric Oxide-Mediated Regulation of GLUT by T3 and Follicle-Stimulating Hormone in Rat Granulosa Cells. *Endocrinology*, 158(6), 1898.