

Resource Summary Report

Generated by [NIF](#) on Aug 1, 2026

Anti-Kir4.1 (KCNJ10) Antibody

RRID:AB_2040120

Type: Antibody

Proper Citation

(Alomone Labs Cat# APC-035, RRID:AB_2040120)

Antibody Information

URL: http://antibodyregistry.org/AB_2040120

Proper Citation: (Alomone Labs Cat# APC-035, RRID:AB_2040120)

Target Antigen: Kir4.1 (KCNJ10) Channel

Host Organism: rabbit

Clonality: unknown

Comments: Useful for Western Blot, Immunohistochemistry, Immunocytochemistry, Immunoprecipitation

Antibody Name: Anti-Kir4.1 (KCNJ10) Antibody

Description: This unknown targets Kir4.1 (KCNJ10) Channel

Target Organism: rat, mouse, human

Antibody ID: AB_2040120

Vendor: Alomone Labs

Catalog Number: APC-035

Record Creation Time: 20260130T082107+0000

Record Last Update: 20260225T232038+0000

Ratings and Alerts

No rating or validation information has been found for Anti-Kir4.1 (KCNJ10) Antibody.

No alerts have been found for Anti-Kir4.1 (KCNJ10) Antibody.

Data and Source Information

Source: [Antibody Registry](#)

Usage and Citation Metrics

We found 34 mentions in open access literature.

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

Li F, et al. (2026) Overexpression of the inwardly rectifying potassium channel Kir4.1 or Kir4.1 Tyr 9 Asp in Müller cells exerts neuroprotective effects in an experimental glaucoma model. *Neural regeneration research*, 21(4), 1628.

Salazar MPR, et al. (2025) Mitochondrial fission controls astrocyte morphogenesis and organization in the cortex. *bioRxiv : the preprint server for biology*.

Bovee S, et al. (2025) Degeneration of the stria vascularis in quiet-aged gerbils: Linking structural, cellular and molecular changes to cochlear function. *Neurobiology of aging*, 156, 50.

Samokhina E, et al. (2025) Potassium homeostasis during disease progression of Alzheimer's disease. *The Journal of physiology*, 603(11), 3405.

Kong C, et al. (2025) Visualization of the Spiral Ganglion Neuron in Vivo Using a Novel ¹⁷⁷Lu Nuclear Molecule Label. *Advanced science (Weinheim, Baden-Wurttemberg, Germany)*, 12(29), e04464.

Gleichman AJ, et al. (2025) Regionally mapped astrocytic responses to cortical and white matter stroke show differential roles in astrocyte-induced vascular remodeling. *Neuron*, 113(24), 4178.

King AC, et al. (2024) Modulation of SNARE-dependent exocytosis in astrocytes improves neuropathology in Huntington's disease. *Disease models & mechanisms*, 17(11).

Koh JY, et al. (2023) Single-cell RNA-sequencing of stria vascularis cells in the adult *Slc26a4*^{-/-} mouse. *BMC medical genomics*, 16(1), 133.

Oudart M, et al. (2023) The ribosome-associated protein RACK1 represses Kir4.1 translation in astrocytes and influences neuronal activity. *Cell reports*, 42(5), 112456.

Hong X, et al. (2023) Kir4.1 channel activation in NG2 glia contributes to remyelination in ischemic stroke. *EBioMedicine*, 87, 104406.

Richard EM, et al. (2023) *Wfs1*^{E864K} knock-in mice illuminate the fundamental role of *Wfs1* in endocochlear potential production. *Cell death & disease*, 14(6), 387.

Wang Y, et al. (2022) SOX2 is essential for astrocyte maturation and its deletion leads to hyperactive behavior in mice. *Cell reports*, 41(12), 111842.

Mapps AA, et al. (2022) Satellite glia modulate sympathetic neuron survival, activity, and autonomic function. *eLife*, 11.

Wang N, et al. (2022) Potassium channel Kir 4.1 regulates oligodendrocyte differentiation via intracellular pH regulation. *Glia*, 70(11), 2093.

Huffels CFM, et al. (2022) Amyloid- β plaques affect astrocyte Kir4.1 protein expression but not function in the dentate gyrus of APP/PS1 mice. *Glia*, 70(4), 748.

Peric M, et al. (2021) Dysfunction of oligodendrocyte inwardly rectifying potassium channel in a rat model of amyotrophic lateral sclerosis. *The European journal of neuroscience*, 54(7), 6339.

Taukulis IA, et al. (2021) Single-Cell RNA-Seq of Cisplatin-Treated Adult Stria Vascularis Identifies Cell Type-Specific Regulatory Networks and Novel Therapeutic Gene Targets. *Frontiers in molecular neuroscience*, 14, 718241.

Smith KE, et al. (2021) Divergent membrane properties of mouse cochlear glial cells around hearing onset. *Journal of neuroscience research*, 99(2), 679.

Padmashri R, et al. (2021) Modeling human-specific interlaminar astrocytes in the mouse cerebral cortex. *The Journal of comparative neurology*, 529(4), 802.

Yu X, et al. (2020) Context-Specific Striatal Astrocyte Molecular Responses Are Phenotypically Exploitable. *Neuron*, 108(6), 1146.