

Resource Summary Report

Generated by [FDI Lab - SciCrunch.org](https://fdi-lab.sci-crunch.org) on May 8, 2025

C;129S4-Pten^{tm1Hwu}/J

RRID:IMSR_JAX:004597

Type: Organism

Proper Citation

RRID:IMSR_JAX:004597

Organism Information

URL: <https://www.jax.org/strain/004597>

Proper Citation: RRID:IMSR_JAX:004597

Description: Mus musculus with name C;129S4-Pten^{tm1Hwu}/J from IMSR.

Species: Mus musculus

Notes: gene symbol note: phosphatase and tensin homolog; mutant stock: Pten

Affected Gene: phosphatase and tensin homolog

Genomic Alteration: targeted mutation 1; Hong Wu

Catalog Number: JAX:004597

Database: International Mouse Resource Center IMSR, JAX

Database Abbreviation: IMSR

Availability: embryo

Alternate IDs: IMSR_JAX:4597

Organism Name: C;129S4-Pten^{tm1Hwu}/J

Record Creation Time: 20230509T193244+0000

Record Last Update: 20250412T090317+0000

Ratings and Alerts

No rating or validation information has been found for C;129S4-Pten^{tm1Hwu/J}.

No alerts have been found for C;129S4-Pten^{tm1Hwu/J}.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: International Mouse Resource Center IMSR, JAX

Usage and Citation Metrics

We found 14 mentions in open access literature.

Listed below are recent publications. The full list is available at [FDI Lab - SciCrunch.org](#).

Yonan JM, et al. (2024) PTEN DELETION IN THE ADULT DENTATE GYRUS INDUCES EPILEPSY. bioRxiv : the preprint server for biology.

Cheung G, et al. (2024) Multipotent progenitors instruct ontogeny of the superior colliculus. Neuron, 112(2), 230.

Yonan JM, et al. (2024) PTEN deletion in the adult dentate gyrus induces epilepsy. Neurobiology of disease, 203, 106736.

Yonan JM, et al. (2023) Vector-mediated PTEN deletion in the adult dentate gyrus initiates new growth of granule cell bodies and dendrites and expansion of mossy fiber terminal fields that continues for months. Neurobiology of disease, 184, 106190.

Schaeffer J, et al. (2023) Customization of the translational complex regulates mRNA-specific translation to control CNS regeneration. Neuron, 111(18), 2881.

Frazel PW, et al. (2023) Single-cell analysis of the nervous system at small and large scales with instant partitions. bioRxiv : the preprint server for biology.

Carlock C, et al. (2023) PRL2 inhibition elevates PTEN protein and ameliorates progression of acute myeloid leukemia. JCI insight, 8(19).

DeGeer J, et al. (2022) Ral GTPases are critical regulators of spinal cord myelination and homeostasis. Cell reports, 40(13), 111413.

He D, et al. (2022) Disruption of the IL-33-ST2-AKT signaling axis impairs neurodevelopment by inhibiting microglial metabolic adaptation and phagocytic function. Immunity, 55(1), 159.

Gallent EA, et al. (2018) Neuronal PTEN deletion in adult cortical neurons triggers progressive growth of cell bodies, dendrites, and axons. Experimental neurology, 303, 12.

Malek M, et al. (2017) PTEN Regulates PI(3,4)P2 Signaling Downstream of Class I PI3K. *Molecular cell*, 68(3), 566.

Norsworthy MW, et al. (2017) Sox11 Expression Promotes Regeneration of Some Retinal Ganglion Cell Types but Kills Others. *Neuron*, 94(6), 1112.

Figlia G, et al. (2017) Dual function of the PI3K-Akt-mTORC1 axis in myelination of the peripheral nervous system. *eLife*, 6.

Zhu L, et al. (2016) Multi-organ Mapping of Cancer Risk. *Cell*, 166(5), 1132.