Resource Summary Report

Generated by FDI Lab - SciCrunch.org on Apr 2, 2025

B6.129S4-Pten^{tm1Hwu}/J

RRID:IMSR_JAX:006440
Type: Organism

Proper Citation

RRID:IMSR_JAX:006440

Organism Information

URL: https://www.jax.org/strain/006440

Proper Citation: RRID:IMSR_JAX:006440

Description: Mus musculus with name B6.129S4-Pten^{tm1Hwu}/J from IMSR.

Species: Mus musculus

Notes: gene symbol note: phosphatase and tensin homolog; mutant strain|congenic strain: Pten

Affected Gene: phosphatase and tensin homolog

Genomic Alteration: targeted mutation 1; Hong Wu

Catalog Number: JAX:006440

Database: International Mouse Resource Center IMSR, JAX

Database Abbreviation: IMSR

Availability: live

Alternate IDs: IMSR_JAX:6440

Organism Name: B6.129S4-Pten^{tm1Hwu}/J

Record Creation Time: 20230509T193251+0000

Record Last Update: 20240104T174855+0000

Ratings and Alerts

No rating or validation information has been found for B6.129S4-Pten^{tm1Hwu}/J.

No alerts have been found for B6.129S4-Pten^{tm1Hwu}/J.

Data and Source Information

Source: Integrated Animals

Source Database: International Mouse Resource Center IMSR, JAX

Usage and Citation Metrics

We found 58 mentions in open access literature.

Listed below are recent publications. The full list is available at FDI Lab - SciCrunch.org.

Molinaro G, et al. (2024) Female-specific dysfunction of sensory neocortical circuits in a mouse model of autism mediated by mGluR5 and estrogen receptor ?. Cell reports, 43(4), 114056.

Drake AW, et al. (2024) Somatostatin interneuron fate-mapping and structure in a Pten knockout model of epilepsy. Frontiers in cellular neuroscience, 18, 1474613.

Liao K, et al. (2024) Critical roles of the miR-17?92 family in thymocyte development, leukemogenesis, and autoimmunity. Cell reports, 43(6), 114261.

Al Abed AS, et al. (2024) Parvalbumin interneuron activity in autism underlies susceptibility to PTSD-like memory formation. iScience, 27(5), 109747.

Pakula H, et al. (2024) Distinct mesenchymal cell states mediate prostate cancer progression. Nature communications, 15(1), 363.

Touahri Y, et al. (2024) Pten regulates endocytic trafficking of cell adhesion and Wnt signaling molecules to pattern the retina. Cell reports, 43(4), 114005.

Zhang Y, et al. (2024) Elevating PLK1 overcomes BETi resistance in prostate cancer via triggering BRD4 phosphorylation-dependent degradation in mitosis. Cell reports, 43(7), 114431.

Hsu WL, et al. (2023) Identification of Ndfip1 as a novel negative regulator for spatial memory formation associated with increased ubiquitination of Beclin 1 and PTEN. PloS one, 18(4), e0283908.

Kim S, et al. (2023) Disruptive lysosomal-metabolic signaling and neurodevelopmental deficits that precede Purkinje cell loss in a mouse model of Niemann-Pick Type-C disease.

Scientific reports, 13(1), 5665.

E Y, et al. (2023) The relationship between pepsinogen C and gastric carcinogenesis: a transgene and population study. BMC cancer, 23(1), 520.

Cheung SKK, et al. (2023) Neuropathological signatures revealed by transcriptomic and proteomic analysis in Pten-deficient mouse models. Scientific reports, 13(1), 6763.

Stewart AN, et al. (2023) PTEN knockout using retrogradely transported AAVs restores locomotor abilities in both acute and chronic spinal cord injury. bioRxiv : the preprint server for biology.

Dusing M, et al. (2023) Neurovascular Development in Pten and Tsc2 Mouse Mutants. eNeuro, 10(2).

Wan J, et al. (2023) De novo NAD+ synthesis contributes to CD8+ T cell metabolic fitness and antitumor function. Cell reports, 42(12), 113518.

Sathyanarayana SH, et al. (2022) Pten heterozygosity restores neuronal morphology in fragile X syndrome mice. Proceedings of the National Academy of Sciences of the United States of America, 119(15), e2109448119.

Oropeza CE, et al. (2022) Heterogeneous phenotypes of Pten-null hepatocellular carcinoma in hepatitis B virus transgenic mice parallels liver lobule zonal gene expression patterns. Virology, 566, 16.

Jacobi A, et al. (2022) Overlapping transcriptional programs promote survival and axonal regeneration of injured retinal ganglion cells. Neuron, 110(16), 2625.

Tariq K, et al. (2022) Disruption of mTORC1 rescues neuronal overgrowth and synapse function dysregulated by Pten loss. Cell reports, 41(5), 111574.

Zhang H, et al. (2022) Annexin A2/TLR2/MYD88 pathway induces arginase 1 expression in tumor-associated neutrophils. The Journal of clinical investigation, 132(22).

Cotton JL, et al. (2022) PTEN and LKB1 are differentially required in Gli1-expressing mesenchymal cells to suppress gastrointestinal polyposis. Cell reports, 40(3), 111125.