

Resource Summary Report

Generated by [kravitz2](#) on Sep 19, 2026

B6.129S2-Serpine1^{tm1Mlg/J}

RRID:IMSR_JAX:002507

Type: Organism

Proper Citation

RRID:IMSR_JAX:002507

Organism Information

URL: <https://www.jax.org/strain/002507>

Proper Citation: RRID:IMSR_JAX:002507

Description: Mus musculus with name B6.129S2-Serpine1^{tm1Mlg/J} from IMSR.

Species: Mus musculus

Synonyms: B6.129S2-Serpine1

Notes: gene symbol note: serine (or cysteine) peptidase inhibitor; clade E; member 1; mutant strain|congenic strain: Serpine1

Affected Gene: serine (or cysteine) peptidase inhibitor; clade E; member 1

Genomic Alteration: targeted mutation 1; Richard C Mulligan

Catalog Number: JAX:002507

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: embryo

Organism Name: B6.129S2-Serpine1^{tm1Mlg/J}

Record Creation Time: 20250513T053632+0000

Record Last Update: 20260919T054822+0000

Ratings and Alerts

No rating or validation information has been found for B6.129S2-Serpine1^{tm1Mlg/J}.

No alerts have been found for B6.129S2-Serpine1^{tm1Mlg/J}.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 9 mentions in open access literature.

Listed below are recent publications. The full list is available at [kravitz2](#).

Ibrahim AA, et al. (2026) Inflammatory macrophage-derived plasminogen activator inhibitor-1 exacerbates inflammation through efferocytosis inhibition. *Cell death discovery*, 12(1).

Zhuang H, et al. (2021) Myxomavirus serpin alters macrophage function and prevents diffuse alveolar hemorrhage in pristane-induced lupus. *Clinical immunology (Orlando, Fla.)*, 229, 108764.

Hosaka S, et al. (2020) Inhibition of Plasminogen Activator Inhibitor-1 Activation Suppresses High Fat Diet-Induced Weight Gain via Alleviation of Hypothalamic Leptin Resistance. *Frontiers in pharmacology*, 11, 943.

Freeberg MAT, et al. (2018) Serpine1 Knockdown Enhances MMP Activity after Flexor Tendon Injury in Mice: Implications for Adhesions Therapy. *Scientific reports*, 8(1), 5810.

Neuhaus W, et al. (2017) Multifaceted Mechanisms of WY-14643 to Stabilize the Blood-Brain Barrier in a Model of Traumatic Brain Injury. *Frontiers in molecular neuroscience*, 10, 149.

Watanabe M, et al. (2017) Type XVII collagen coordinates proliferation in the interfollicular epidermis. *eLife*, 6.

Gong L, et al. (2016) A specific plasminogen activator inhibitor-1 antagonist derived from inactivated urokinase. *Journal of cellular and molecular medicine*, 20(10), 1851.

Dittmann M, et al. (2015) A serpin shapes the extracellular environment to prevent influenza A virus maturation. *Cell*, 160(4), 631.

Yan L, et al. (2014) Effects of a high-fat diet on spontaneous metastasis of Lewis lung carcinoma in plasminogen activator inhibitor-1 deficient and wild-type mice. *PloS one*, 9(10), e110869.