

Resource Summary Report

Generated by [NIF](#) on Sep 13, 2026

B6.129S2-Thbs1^{tm1Hyn}/J

RRID:IMSR_JAX:006141

Type: Organism

Proper Citation

RRID:IMSR_JAX:006141

Organism Information

URL: <https://www.jax.org/strain/006141>

Proper Citation: RRID:IMSR_JAX:006141

Description: Mus musculus with name B6.129S2-Thbs1^{tm1Hyn}/J from IMSR.

Species: Mus musculus

Notes: gene symbol note: thrombospondin 1; mutant strain|congenic strain: Thbs1

Affected Gene: thrombospondin 1

Genomic Alteration: targeted mutation 1; Richard Hynes

Catalog Number: JAX:006141

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6.129S2-Thbs1^{tm1Hyn}/J

Record Creation Time: 20250513T053655+0000

Record Last Update: 20260912T060440+0000

Ratings and Alerts

No rating or validation information has been found for B6.129S2-Thbs1^{tm1Hyn}/J.

No alerts have been found for B6.129S2-Thbs1^{tm1Hyn}/J.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 18 mentions in open access literature.

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

Decouty-Pérez C, et al. (2026) Uncovering the Role of Thrombospondin-1 and Occludin as Potential Prognostic and Diagnostic Biomarkers in Traumatic Brain Injury. International journal of molecular sciences, 27(2).

Zhou T, et al. (2026) Cell-dependent contributions of thrombospondin-1 to the rupture of abdominal aortic aneurysm in mice. Cardiovascular research, 121(18), 2983.

Wang F, et al. (2025) Blockade of TSP-1/CD47 signal axis promotes donor hematopoietic engraftment by improving SEC/MK niche function. iScience, 28(3), 111952.

Zhou T, et al. (2024) Myeloid-Specific Thrombospondin-1 Deficiency Exacerbates Aortic Rupture via Broad Suppression of Extracellular Matrix Proteins. bioRxiv : the preprint server for biology.

Vanhoutte D, et al. (2024) Thbs1 regulates skeletal muscle mass in a TGF β -Smad2/3-ATF4-dependent manner. Cell reports, 43(5), 114149.

Lin JB, et al. (2024) Targeting cell-type-specific, choroid-peripheral immune signaling to treat age-related macular degeneration. Cell reports. Medicine, 5(1), 101353.

Trotta MC, et al. (2023) Oral Administration of Vitamin D3 Prevents Corneal Damage in a Knock-Out Mouse Model of Sjögren's Syndrome. Biomedicines, 11(2).

Finburgh EN, et al. (2023) Role of FGF10/FGFR2b Signaling in Homeostasis and Regeneration of Adult Lacrimal Gland and Corneal Epithelium Proliferation. Investigative ophthalmology & visual science, 64(1), 21.

Delcroix V, et al. (2023) Lacrimal Gland Epithelial Cells Shape Immune Responses through the Modulation of Inflammasomes and Lipid Metabolism. International journal of molecular sciences, 24(5).

Kaneshige A, et al. (2022)elayed signaling between mesenchymal progenitors and muscle stem cells ensures adaptive stem cell response to increased mechanical load. Cell stem cell, 29(2), 265.

Peñaloza HF, et al. (2021) Thrombospondin-1 Restricts Interleukin-36 γ -Mediated Neutrophilic Inflammation during Pseudomonas aeruginosa Pulmonary Infection. mBio, 12(2).

Vanhoutte D, et al. (2021) Thbs1 induces lethal cardiac atrophy through PERK-ATF4 regulated autophagy. *Nature communications*, 12(1), 3928.

Frampton G, et al. (2020) Inhibition of thrombospondin-1 reduces glutathione activity and worsens acute liver injury during acetaminophen hepatotoxicity in mice. *Toxicology and applied pharmacology*, 409, 115323.

Rolfes V, et al. (2020) Platelets Fuel the Inflammasome Activation of Innate Immune Cells. *Cell reports*, 31(6), 107615.

Seif K, et al. (2018) Neutrophil-Mediated Proteolysis of Thrombospondin-1 Promotes Platelet Adhesion and String Formation. *Thrombosis and haemostasis*, 118(12), 2074.

Hu Z, et al. (2017) Stimulation of synapse formation between stem cell-derived neurons and native brainstem auditory neurons. *Scientific reports*, 7(1), 13843.

Zhao Y, et al. (2015) Thrombospondin-1 restrains neutrophil granule serine protease function and regulates the innate immune response during *Klebsiella pneumoniae* infection. *Mucosal immunology*, 8(4), 896.

Zhao Y, et al. (2014) Thrombospondin-1 triggers macrophage IL-10 production and promotes resolution of experimental lung injury. *Mucosal immunology*, 7(2), 440.