

Resource Summary Report

Generated by PRECISE-TBI on Aug 1, 2026

B6.129S-Tnfrsf1b^{tm1Imx} Tnfrsf1a/J

RRID:IMSR_JAX:003243

Type: Organism

Proper Citation

RRID:IMSR_JAX:003243

Organism Information

URL: <https://www.jax.org/strain/003243>

Proper Citation: RRID:IMSR_JAX:003243

Description: Mus musculus with name B6.129S-Tnfrsf1b^{tm1Imx} Tnfrsf1a/J from IMSR.

Species: Mus musculus

Synonyms: B6.129S-Tnfrsf1a Tnfrsf1b/J. B6;129S-Tnfrsf1a Tnfrsf1b/J

Notes: gene symbol note: tumor necrosis factor receptor superfamily; member 1a|tumor necrosis factor receptor superfamily; member 1b; mutant strain|congenic strain: Tnfrsf1a|Tnfrsf1b

Affected Gene: tumor necrosis factor receptor superfamily; member 1a|tumor necrosis factor receptor superfamily; member 1b

Genomic Alteration: targeted mutation 1; Immunex Research and Development Corporation

Catalog Number: JAX:003243

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: sperm

Organism Name: B6.129S-Tnfrsf1b^{tm1Imx} Tnfrsf1a/J

Record Creation Time: 20250513T053638+0000

Record Last Update: 20260801T050341+0000

Ratings and Alerts

No rating or validation information has been found for B6.129S-Tnfrsf1b^{tm1Imx} Tnfrsf1a/J.

Warning: Warning. Researchers have noted that this genotype does not sufficiently model human essential hypertension.

Warning: Warning. Researchers have noted that this genotype does not sufficiently model human familial combined hyperlipidemia.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 11 mentions in open access literature.

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

Klein OR, et al. (2023) Defibrotide modulates pulmonary endothelial cell activation and protects against lung inflammation in pre-clinical models of LPS-induced lung injury and idiopathic pneumonia syndrome. *Frontiers in immunology*, 14, 1186422.

Liu S, et al. (2023) A tissue injury sensing and repair pathway distinct from host pathogen defense. *Cell*, 186(10), 2127.

Xie Y, et al. (2022) Hair shaft miniaturization causes stem cell depletion through mechanosensory signals mediated by a Piezo1-calcium-TNF- α axis. *Cell stem cell*, 29(1), 70.

SanMiguel JM, et al. (2022) Distinct Tumor Necrosis Factor Alpha Receptors Dictate Stem Cell Fitness versus Lineage Output in Dnmt3a-Mutant Clonal Hematopoiesis. *Cancer discovery*, 12(12), 2763.

Belenguer G, et al. (2021) Adult Neural Stem Cells Are Alerted by Systemic Inflammation through TNF- α Receptor Signaling. *Cell stem cell*, 28(2), 285.

Dos Santos RS, et al. (2020) Involvement of the Hsp70/TLR4/IL-6 and TNF- α pathways in delayed-onset muscle soreness. *Journal of neurochemistry*, 155(1), 29.

Marahleh A, et al. (2019) TNF- α Directly Enhances Osteocyte RANKL Expression and Promotes Osteoclast Formation. *Frontiers in immunology*, 10, 2925.

Bachus H, et al. (2019) Impaired Tumor-Necrosis-Factor- α -driven Dendritic Cell Activation Limits Lipopolysaccharide-Induced Protection from Allergic Inflammation in Infants. *Immunity*, 50(1), 225.

Boege Y, et al. (2017) A Dual Role of Caspase-8 in Triggering and Sensing Proliferation-Associated DNA Damage, a Key Determinant of Liver Cancer Development. *Cancer cell*, 32(3), 342.

Kaushal N, et al. (2012) TNF- α and temporal changes in sleep architecture in mice exposed to sleep fragmentation. PloS one, 7(9), e45610.

Kovalenko A, et al. (2009) Caspase-8 deficiency in epidermal keratinocytes triggers an inflammatory skin disease. The Journal of experimental medicine, 206(10), 2161.