

Resource Summary Report

Generated by [NIF](#) on Sep 8, 2026

C57BL/6-Itgb3^{tm1.1Wlbc}r/J

RRID:IMSR_JAX:028232

Type: Organism

Proper Citation

RRID:IMSR_JAX:028232

Organism Information

URL: <https://www.jax.org/strain/028232>

Proper Citation: RRID:IMSR_JAX:028232

Description: Mus musculus with name C57BL/6-Itgb3^{tm1.1Wlbc}r/J from IMSR.

Species: Mus musculus

Notes: gene symbol note: integrin beta 3; coisogenic strain|mutant strain: Itgb3

Affected Gene: integrin beta 3

Genomic Alteration: targeted mutation 1.1; Katherine Weilbaecher

Catalog Number: JAX:028232

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: sperm

Organism Name: C57BL/6-Itgb3^{tm1.1Wlbc}r/J

Record Creation Time: 20250513T053803+0000

Record Last Update: 20260905T044540+0000

Ratings and Alerts

No rating or validation information has been found for C57BL/6-Itgb3^{tm1.1Wlbc}r/J.

No alerts have been found for C57BL/6-Itgb3^{tm1.1Wlbc}r/J.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 6 mentions in open access literature.

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

Handwerk CJ, et al. (2023) Integrin $\alpha 3$ regulates apical dendritic morphology of pyramidal neurons throughout hippocampal CA3. Hippocampus.

Kingston R, et al. (2021) Serotonin transporter-mediated molecular axis regulates regional retinal ganglion cell vulnerability and axon regeneration after nerve injury. PLoS genetics, 17(11), e1009885.

Mishra SK, et al. (2020) Periostin Activation of Integrin Receptors on Sensory Neurons Induces Allergic Itch. Cell reports, 31(1), 107472.

Swinehart BD, et al. (2020) Integrin $\alpha 3$ organizes dendritic complexity of cerebral cortical pyramidal neurons along a tangential gradient. Molecular brain, 13(1), 168.

Bui T, et al. (2019) Functional Redundancy between $\alpha 1$ and $\alpha 3$ Integrin in Activating the IR/Akt/mTORC1 Signaling Axis to Promote ErbB2-Driven Breast Cancer. Cell reports, 29(3), 589.

Varney S, et al. (2015) Mice lacking integrin $\alpha 3$ expression exhibit altered response to chronic stress. Neurobiology of stress, 2, 51.