

Resource Summary Report

Generated by [dkNET](#) on Aug 19, 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: 20260815T050716+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 [dkNET](#) .

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.