Also Known As: AK, AKR
AKR mice are useful in cancer, immunology, and metabolism research.

Sized to accommodate orders of up to 50 or more. Ask Customer Service for details.

Genetic Background

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
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Originally inbred at the Rockefeller Institute, AKR mice are widely used in cancer research for their high leukemia incidence (60-90%) and in immunology as a source of the Thy1.1 (theta AKR) antigen. AKR/J mice are viremic from birth, and express the ecotropic retrovirus AKV in all tissues. The hair interior defect (hid) mutation, a strain characteristic of AKR mice, causes alterations in hair development that is only evident microscopically. Adrenocortical lipid depletion (ald) in AKR mice is caused by a mutation in sterol O-acyltransferase 1 (Soat1), and leads to a truncated SOAT1 protein. AKR/J mice are relatively resistant to aortic lesion formation on a semi-synthetic high fat diet and are hyporesponsive to diets containing high levels of fat and cholesterol.

**Selected References**

- **Genetics**

  - Obq<sup>3AKR/J</sup>
  - Il3ra<sup>m1</sup>
  - Rmcfs
Genotyping Protocols
Sanger sequencing: H2rs8249979
Genotyping resources and troubleshooting
Inbred mouse strains are maintained through sibling (sister x brother) matings; no genotyping required.

Dietary Information
LabDiet® 5K52 formulation (6% fat)
Breeding Considerations

This strain is a good breeder.

Additional Breeding and Husbandry Support
Mating System
Sibling x Sibling
Appearance
albino
Related Genotype: a/a Tyr<sup>c</sup> / Tyr<sup>c</sup> Soat<sup>1<sub>ald</sub></sup> / Soat<sup>1<sub>ald</sub></sup> hidhid

Citation
When using the AKR mouse strain in a publication, please include JAX stock #000648 in your Materials and Methods section.

Animal Health Reports
Facility Barrier Level Descriptions

MP16 (Standard)

Pricing & Availability

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<th>Live Mouse</th>
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Email: TechTran@jax.org

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Related Strains

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- By Allele
- By Gene
- By Collection

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