AKR / J

Stock No: 000648 | AKR

Inbred Strain

AVAILABLE NOW

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Also Known As: AK, AKR

AKR mice are useful in cancer, immunology, and metabolism research.
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

Obq3<sup>AKR/J</sup>
Genotyping Protocols

Sanger sequencing: \( H_2^x \)

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\( ^f/\)Tyr\( ^f \) Soat\( 1^{ald}/\)Soat\( 1^{ald} \) hid/hid

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>AGE</th>
<th>SEX</th>
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