AKR / J

Stock No: 000648 | AKR

Inbred Strain

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.
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^{AKR/J}
Genotyping Protocols
Sanger sequencing: H2 rs8249979
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^p Tyr^p Soat1^{ald}/Soat1^{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

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Terms are granted by individual review and stated on the customer invoice(s) and account statement. These transactions are payable in U.S. currency within the granted terms. Payment for services, products, shipping containers, and shipping costs that are
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Terms Of Use

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Related Strains

- All
- By Allele
- By Gene
- By Collection

All Related Strains