AKR/J

Stock No: 000648 | AKR

Inbred Strain

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Overview

Also Known As: AK, AKR

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

Read More »
GENETIC OVERVIEW

Genetic Background

Contact Technical Support
(2018-07-27 00:00:00)

RESEARCH APPLICATIONS

Endocrine Deficiency Research
Internal/Organ Research
Cardiovascular Research
Cancer Research
Research Tools
Immunology, Inflammation and Autoimmunity Research
Metabolism Research
Neurobiology Research

BASE PRICE

Starting at:

$58.51 Domestic price for female 3-week

Details

Detailed Description

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^MKR/J
Genotyping Protocols

Genotyping resources and troubleshooting

Inbred mouse strains are maintained through sibling (sister x brother) matings; no genotyping required.
Dietary Information
LabDiet® 5K5Z 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</sup> /Soat<sup>1</sup> 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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