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.
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

Obq3AKR/J
**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>+</sup>/**Tyr**<sup>+</sup> **Soat1<sup>alt</sup>/**Soat1<sup>alt</sup>** **hid/hid**

**Citation**

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

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**Pricing & Availability**

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### Pricing effective for USA, Canada and Mexico shipping destinations

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