

129S/Sv-Kras^{tm3Tyj}/J

Stock No: 008185

 Targeted Mutation

Typically mice are recovered in 10-14 weeks. Contact Customer Service to place an order or for more information.

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at one week of age. The animals are also prone to both thymic lymphoma (30%) and skin papillomas (40%). Carcinomas of the pancreas and colon are surprisingly not observed in these mice. However, all of the mutant mice examined had multiple aberrant crypt foci (ACF) of the colon which are observed in human patients with colon cancer but absent in wild-type mice. Due to the short latency and high penetrance of the tumor phenotype, these mice may be useful in screening potential chemopreventative agents.

Donating Investigator

Dr. Tyler Jacks, Massachusetts Institute of Technology

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GENETIC OVERVIEW

Genetic Background

Generation

Kras^{tm3Tyj}

Alele Type

Targeted

Gene Symbol

Kras

Gene Name

Kirsten rat sarcoma viral oncogene homolog

VIEW GENETICS

RESEARCH APPLICATIONS

Cancer Research

Developmental Biology Research

VIEW ALL RESEARCH APPLICATIONS

BASE PRICE

Starting at:

\$2,854.50 Domestic price Cryo Recovery

V I E W P R I C E L I S T

Details

Detailed Description

Mice homozygous for the Kras LA2 allele are embryonic lethal. Heterozygotes have a reduced lifespan compared with wildtype controls, with a mean survival time of 200 days. All animals develop an extensive tumor burden. Most frequently, tumors are observed in the lung, where 100% of animals develop multifocal tumors first detectable as small pleural nodules at one week of age. Tumor multiplicity and size increase with age, ultimately resulting in respiratory distress and death. In addition to lung cancer, the animals are prone to both thymic lymphoma (30%) and skin papillomas (40%). The papillomas typically arise in areas subject to abrasion (ears and snout). These pedunculated papillomas demonstrate limited, if any progression to carcinomas during the lifespan of these animals. Carcinomas of the pancreas and colon are surprisingly not observed in these mice. However, all of the mutant mice examined had multiple aberrant crypt foci (ACF) of the colon which are absent in wild-type mice. Due to the short latency and high penetrance of the tumor phenotype, these mice may be useful in screening potential chemopreventative agents.

Development

Selected References

Genetics

Kras^{tm3Tyj}

Disease/Phenotype

Disease Terms

Research Areas By Phenotype

Mammalian Phenotype Terms by Genotype

- Technical Support

C O N T A C T T E C H N I C A L S U P P O R T

Genotyping Protocols

Standard PCR:[Kras](#)

Probe:[Kras Probe](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

When maintained as a live colony, heterozygotes may be bred for a period of 4-6 months. Homozygotes are embryonic lethal.

[Additional Breeding and Husbandry Support](#)

Citation

When using the 129S/Sv-*Kras*^{tm3Tyj}/J mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #008185 in your Materials and Methods section.

Animal Health Reports

[Facility Barrier Level Descriptions](#)

Production of mice from cryopreserved embryos or sperm occurs in a maximum barrier room, [G200](#)

- Pricing & Availability



Cryo
Recovery

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Phone: 207-288-6470

Email: TechTran@jax.org

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