C57BL/6J-Apc<sup>Min</sup>/J

Stock No: 002020 | multiple intestinal neoplasia

- Chemically Induced Mutation, Coisogenic

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Also Known As: multiple intestinal neoplasia, Min
Heterozygotes of this strain develop anemia and are highly susceptible to spontaneous intestinal adenoma formation. Homozygous C57BL/6J-Apc<sup>Min</sup>/J mice are not viable. The increased incidence of colorectal adenomas renders these mice a useful model of colon cancer. A small number of C57BL/6J-Apc<sup>Min</sup> heterozygous female mice develop mammary tumors.

Donating Investigator
Dr. Alexandra Shedlovsky, University of Wisconsin, Madison
Dr. William F. Dove, University of Wisconsin - Madison

GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
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<tbody>
<tr>
<td></td>
<td>Contact Technical Support</td>
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<td>(2018-07-27 00:00:00)</td>
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Apc<sup>Min</sup>

<table>
<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
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<tr>
<td>Chemically induced (ENU)</td>
<td>Apc</td>
<td>adenomatosis polyposis coli</td>
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RESEARCH APPLICATIONS
Cancer Research
Mouse/Human Gene Homologs

VIEW ALL RESEARCH APPLICATIONS
Details

Detailed Description

The C57BL/6J-Apc\textsuperscript{Min} /J strain is highly susceptible to spontaneous intestinal adenoma formation. Homozygous mice are not viable. It was initially reported that one hundred percent of the C57BL/6J-Apc\textsuperscript{Min} heterozygous mice raised on a high fat diet develop in excess of 30 adenomas throughout the intestinal tract and most die by 120 days of age. Heterozygotes also develop anemia. (Moser et al., 1990, Su et al., 1992). A small number of C57BL/6J-Apc\textsuperscript{Min} heterozygous female mice develop mammary tumors. A subsequent publication indicates that this strain may carry a dominant modifier (Mom2) gene that reduces the number and incidence of polyp formation in C57BL/6J-Apc\textsuperscript{Min} heterozygous mice (Silverman et al., 2002).

This strain ships with a JAXTag\textsuperscript{TM} affixed. Learn more about JAXTag\textsuperscript{TM}.

Development

Control Suggestions

Selected References

Genetics

Apc\textsuperscript{Min}

Disease/Phenotype

Disease Terms

Research Areas By Genotype

Mammalian Phenotype Terms by Genotype

References

Technical Support
Genotyping Protocols
End Point Analysis: Apc\textsuperscript{Min} alternate1
Genotyping resources and troubleshooting

Dietary Information
LabDiet® 5K20 formulation (10% fat)

Breeding Considerations

This strain is a good breeder.

This strain is maintained by breeding heterozygote males to C57BL/6J females. Female heterozygotes are not recommended because anemia and intestinal adenomas interfere with pregnancy. Breeding performance in heterozygote males declines as anemia and tumors develop.

Additional Breeding and Husbandry Support

Mating System
Inbred x Heterozygote
(C57BL/6J x Heterozygote

Appearance
black
Related Genotype: a/a

Citation

When using this strain in an experimental investigation, please cite the originating article(s) and include JAX stock #002020 in your Materials and Methods section.

Animal Health Reports

Facility Barrier Level Descriptions

AX1 (Standard)

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<table>
<thead>
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<th>AGE</th>
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