C57BL/6 Apj[+/-] J

Stock No: 002020 | multiple intestinal neoplasia

Chemically Induced Mutation, Coisogenic

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Overview

JAXTag™
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

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**GENETIC OVERVIEW**

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
</tr>
</thead>
<tbody>
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</tbody>
</table>

**Apc<sup>Min</sup>**

<table>
<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
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<tbody>
<tr>
<td>Chemically induced (ENU)</td>
<td>Apc</td>
<td>adenomatosis polyposis coli</td>
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</table>

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**RESEARCH APPLICATIONS**

Cancer Research

Mouse/Human Gene Homologs
The C57BL/6J-Apc<sup>Min</sup>/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<sup>Min</sup> 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<sup>Min</sup> 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<sup>Min</sup> heterozygous mice (Silverman et al., 2002).

This strain ships with a JAXTag<sup>TM</sup> affixed. Learn more about JAXTag<sup>TM</sup>.
Genotyping Protocols

End Point Analysis: \( Apc^{\text{Min}} \)

Genotyping resources and troubleshooting

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 the multiple intestinal neoplasia mouse strain in a publication, please cite the originating article(s) and include JAX stock #002020 in your Materials and Methods section.

Animal Health Reports

Facility Barrier Level Descriptions

\( AX 4 \) (Standard)

Pricing & Availability

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<table>
<thead>
<tr>
<th>AGE</th>
<th>SEX</th>
<th>GENOTYPE</th>
<th>PRICE</th>
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<tbody>
<tr>
<td>4 weeks</td>
<td>Female</td>
<td>Heterozygous for ( Apc^{\text{Min}} )</td>
<td>$371.78</td>
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<tr>
<td></td>
<td>Male</td>
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Email: TechTran@jax.org

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Related Strains

All Related Strains

- **C57BL/6-Tg(TcraTcrb)1100Mjb/J**
  - Stock No: 003831 | OT-1
  - Related By: JAXTag Strain

- **B6CBA-Tg(HDexon1)62Gpb/1J**
  - Stock No: 002810 | B6CBA-R6/2 (CAG 160 +/- 5)
  - Related By: JAXTag Strain

- **B6CBA-Tg(HDexon1)62Gpb/3J**
  - Stock No: 006494 | B6CBA-R6/2 (CAG 120 +/- 5)
  - Related By: JAXTag Strain