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\(^\text{Min}\)/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\(^\text{Min}\) heterozygous female mice develop mammary tumors.

Donating Investigator
Dr. Alexandra Shedlovsky, University of Wisconsin, Madison
Dr. William F. Dove, University of Wisconsin-Madison
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 \textit{et al.}, 1990, Su \textit{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 (\textit{Mom}2) gene that reduces the number and incidence of polyp formation in C57BL/6J-Apc\textsuperscript{Min} heterozygous mice (Silverman \textit{et al.}, 2002).

This strain ships with a RapID Ear Tag affixed. Learn more about RapID Ear Tag.

**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 \textit{et al.}, 1990, Su \textit{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 (\textit{Mom}2) gene that reduces the number and incidence of polyp formation in C57BL/6J-Apc\textsuperscript{Min} heterozygous mice (Silverman \textit{et al.}, 2002).

**Development**

**Control Suggestions**

**Selected References**
**Genetics**

**Apc\textsuperscript{Min}**

**Disease/Phenotype**

**Disease Terms**

**Research Areas By Phenotype**

**Mammalian Phenotype Terms by Genotype**

**References**

**Technical Support**

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**Genotyping Protocols**

End Point Analysis: Apc\textit{alternate1}

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:** \textit{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
- AX4 (Standard)
- AX29 (Maximum)

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