B6.129P2-ApoelUnc/J

Stock No: 002052 | ApoE KO

- Congenic, Targeted Mutation

READILY AVAILABLE

PLACE ORDER

Sized to accommodate orders of up to 100 or more. Ask Customer Service for details.

Overview
Also Known As: ApoE KO

Mice homozygous for the Apoe<sup>tm1Unc</sup> mutation show a marked increase in total plasma cholesterol levels that are unaffected by age or gender. Fatty streaks in the proximal aorta are found at three months of age. The lesions increase with age and progress to lesions with less lipid but more elongated cells, typical of a more advanced stage of pre-atherosclerotic lesion.

Donating Investigator

Dr. Nobuyo Maeda, University of North Carolina at Chapel Hill
Mice homozygous for the Apoe<sup>tm1Unc</sup> mutation show a marked increase in total plasma cholesterol levels that are unaffected by age or sex. Fatty streaks in the proximal aorta are found at 3 months of age. The lesions increase with age and progress to lesions with less lipid but more elongated cells, typical of a more advanced stage of pre-atherosclerotic lesion. Moderately increased triglyceride levels have been reported in mice with this mutation on a mixed C57BL/6 x 129 genetic background. Aged apoE-deficient mice (>17 months) have been shown to develop xanthomatous lesions in the brain consisting mostly of crystalline cholesterol clefts, lipid globules, and foam cells. Smaller xanthomas were seen in the choroid plexus and ventral fornix. Additional studies indicate that apoE-deficient mice have altered responses to stress, impaired spatial learning and memory, altered long term potentiation, and synaptic damage.
Genotyping Protocols
Standard PCR: Apoe<sup>tm1Unc</sup>
Standard PCR: Apoe<sup>tm1Unc</sup>
Probe: Apoe<sup>tm1Unc</sup> Probe
Genotyping resources and troubleshooting

Dietary Information
LabDiet® 5K52 formulation (6% fat)

Breeding Considerations
This strain is a good breeder.

Additional Breeding and Husbandry Support
Mating System
Homozygote x Homozygote

Appearance
black
Related Genotype: a/a

Citation
When using the ApoE KO mouse strain in a publication, please cite the originating article(s) and include JAX stock #002052 in your Materials and Methods section.

Animal Health Reports
Facility Barrier Level Descriptions

<table>
<thead>
<tr>
<th>Facility Barrier Level</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>MP14 (Maximum)</td>
</tr>
<tr>
<td>B</td>
<td>RB15 (Maximum)</td>
</tr>
</tbody>
</table>

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>Homozygous for Apoe&lt;sup&gt;tm1Unc&lt;/sup&gt;</td>
<td>$115.98</td>
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<tr>
<td></td>
<td>Male</td>
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**Related Strains**

- All
- By Allele
- By Gene
- By Collection