Overview

Also Known As: apo-B^{100}

This strain is currently unavailable due to Genetic Quality Control of the cryo preserved material.

These double mutant mice express only the apo-B100 isoform and a truncated nonfunctional (unable to bind LDL) low density lipoprotein receptor. These mice may be suitable for use in studies related to cholesterol and lipid metabolism.

Donating Investigator

Dr. Stephen Young, UCLA
GENETIC OVERVIEW

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

Apob<sup>tm2Sgy</sup>

<table>
<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Targeted (Null/Knockout)</td>
<td>Apob</td>
<td>apolipoprotein B</td>
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Ldlr<sup>tm1Her</sup>

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<td>Ldlr</td>
<td>low density lipoprotein receptor</td>
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RESEARCH APPLICATIONS

Metabolism Research
Cardiovascular Research
Developmental Biology Research
Neurobiology Research
Mouse/Human Gene Homologs

This strain expresses only APO-B100 (normally expressed in the liver and yolk sac) and is deficient in low density lipoprotein receptor (Ldlr<sup>tm1Her</sup>/Ldlr<sup>tm1Her</sup>). No ApoB48 isoform is detected by western blot analysis of plasma lipoproteins from homozygotes. Mice that are homozygous for both alleles are viable and fertile.
Genotyping Protocols
Restriction Enzyme Digest: Apob<sup>tm2Sgy</sup>
End Point Analysis: Apob<sup>tm2Sgy</sup>-EP
Standard PCR: Ldlr<sup>tm1Her</sup>
Sanger sequencing: Apob<sup>tm2Sgy</sup>-SEQ
Genotyping resources and troubleshooting

Breeding Considerations
When maintaining a live colony, these mice can be bred as homozygous for both alleles.

Additional Breeding and Husbandry Support

Citation
When using the apo-B<sup>100</sup> mouse strain in a publication, please cite the originating article(s) and include JAX stock #003000 in your Materials and Methods section.

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Last Name
Institution

Phone Number

Email

**Please indicate your approximate levels of interest.** You can add another line by selecting "Add More Interest".

- Number of Mice
- Frequency
- Product
- Comment

**ADD MORE INTEREST**

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Email: TechTran@jax.org

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Related Strains

All

By Allele

By Gene

By Collection

All Related Strains