B6;129-Apob<sup>tm2Sgy</sup> Apoe<sup>tm1Unc</sup> / J

Stock No: 002879 | apo-B<sup>100</sup> apo-E<sup>-</sup>

Targeted Mutation

AVAILABLE FOR REGISTERING INTEREST

REGISTER INTEREST

Please contact Customer Service for more information

Also Known As: apo-B<sup>100</sup> apo-E<sup>-</sup>

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

These double Apob/Apoe knock-out mice only express APOB<sup>100</sup> and exhibit low total and LDL cholesterol.

Donating Investigator

Dr. Stephen Young, Gladstone Institutes UCSF

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GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
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**Apob<sup>tm2Sgy</sup>**

- **Allele Type**: Targeted (Null/Knockout)
- **Gene Symbol**: Apob
- **Gene Name**: apolipoprotein B

**Apoe<sup>tm1Unc</sup>**

- **Allele Type**: Targeted (Null/Knockout)
- **Gene Symbol**: Apoe
- **Gene Name**: apolipoprotein E

VIEW GENETICS

RESEARCH APPLICATIONS

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

Detailed Description
Mice homozygous for the Apob\textsuperscript{tm25gy} and Apoe\textsuperscript{tm1Unc} targeted mutations do not express the apolipoproteins B48 or E, they do express AP0B100. Homozygotes are viable and fertile with no overt abnormalities. Compared to the APOB48 APOE deficient mice and the APOE deficient mice, they have the lowest total cholesterol (247mg/dl), lowest LDL cholesterol, and the least extensive Atherosclerotic lesions. The extent of atherosclerosis correlated significantly with plasma cholesterol levels.

Development

Selected References

Genetics

Apob\textsuperscript{tm25gy}

Apoe\textsuperscript{tm1Unc}

Disease/Phenotype

Disease Terms

Research Areas By Genotype

Mammalian Phenotype Terms by Genotype

References

Technical Support

Genotyping Protocols
Restriction Enzyme Digest: Apob\textsuperscript{tm25gy}
High Resolution Melting: Apoe\textsuperscript{tm1Unc}
Standard PCR: Apoe\textsuperscript{tm1Unc}
Genotyping resources and troubleshooting
Breeding Considerations
When maintaining a live colony, this strain is maintained by mating homozygous siblings. Expected coat color from breeding: White Bellied Agouti

Additional Breeding and Husbandry Support

Citation
When using the apo-B$^{100}$ apo-E mouse strain in a publication, please cite the originating article(s) and include JAX stock #002879 in your Materials and Methods section.

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