C57BLKS/J

Stock No: 000662

Inbred Strain

AVAILABLE NOW

PLACE ORDER

Sized to accommodate orders of up to 10 or more with age range. Ask Customer Service for details.

Overview
Also Known As: Black Kaliss J, C57 Kaliss, C57BL/Ks, BKS

C57BLKS/J is closely related to C57BL/6J, but the strains are phenotypically distinct. Differences include more severe diet-induced atherosclerotic lesions in C57BLKS/J mice, low total cholesterol and low HDL cholesterol when fed a normal diet, and high total cholesterol and HDL cholesterol in an atherogenic diet. C57BLKS/J mice have a relatively high percentage of reticulocytes per total number of erythrocytes, high white blood cell count per volume, with a high percentage of lymphocytes and basophils and a low percentage of neutrophils per total number of leukocytes. C57BLKS/J mice exhibit age related hearing loss.

GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
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</thead>
<tbody>
<tr>
<td>Contact Technical Support</td>
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<tr>
<td>(2018-07-27 00:00:00)</td>
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RESEARCH APPLICATIONS

Neurobiology Research
Sensorineural Research
Research Tools
Diabetes and Obesity Research
Metabolism Research

VIEW GENETICS

VIEW ALL RESEARCH APPLICATIONS
Important Note
This strain is homozygous for Cdh23<sup>ahl</sup>, the age related hearing loss 1 mutation, which on this background results in progressive hearing loss with onset prior to three months of age.

Detailed Description
Although C57BLKS/J is estimated to have more than 70% of its genome derived from C57BL/6J, these strains are phenotypically distinct. Diet-induced atherosclerotic lesions are much more severe in C57BLKS/J than in C57BL/6J or many other inbred strains. Compared with a panel of inbred strains, C57BLKS/J was found to have low total cholesterol and low HDL cholesterol when fed a normal diet and high total cholesterol and HDL cholesterol in an atherogenic diet. Paigen et al. found high levels of plasma bile salts in C57BLKS/J females after eight weeks on an atherogenic diet. The mutations diabetes (Lepr<sup>db</sup>) and obese (Lepr<sup>ob</sup>) each express a much more severe phenotype on the C57BLKS/J background than on the C57BL/6J background. The Cpe<sup>fatt</sup> mutation causes severe obesity, hyperinsulinemia, and hyperglycemia on the C57BLKS/J background rather than the hyperinsulinemia, and mild obesity without hyperglycemia found on the HRS/J background. In a comparative study of 43 inbred strains, Barker and Peters found that C57BLKS/J had a relatively high percentage of reticulocytes per total number of erythrocytes, high white blood cell count per volume, with a high percentage of lymphocytes and basophils and a low percentage of neutrophils per total number of leukocytes. C57BLKS/J mice exhibit age related hearing loss by three months of age.
Genotyping Protocols
Genotyping resources and troubleshooting
Inbred mouse strains are maintained through sibling (sister x brother) matings; no genotyping required.

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

Breeding Considerations

This strain is a challenging breeder.

Additional Breeding and Husbandry Support

Mating System
Sibling x Sibling

Appearance
black
Related Genotype: a/a

Citation
When using the C57Bl/6J mouse strain in a publication, please include JAX stock #000662 in your Materials and Methods section.

Animal Health Reports
Barrier level descriptions
AX4 (Standard)
MP15 (Standard)

Pricing & Availability
Sized to accommodate orders of up to 10 or more with age range. Ask Customer Service for details.

<table>
<thead>
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<th>AGE</th>
<th>SEX</th>
<th>GENOTYPE</th>
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Phone: 207-288-6470
Email: TechTran@jax.org

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- By Allele
- By Gene
- By Collection

All Related Strains