Overview

Also Known As: B6-hemolytic anemia

These mice carry a spontaneous mutation at the Spta1 locus characterized by spherocytosis and some aspects of sickle cell anemia.
GENETIC OVERVIEW

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<th>Genetic Background</th>
<th>Generation</th>
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<td>Spht</td>
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**Allele Type**

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**Gene Symbol**

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**Gene Name**

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RESEARCH APPLICATIONS

Hematological Research

Developmental Biology Research

BASE PRICE

Starting at:

$2,854.50 Domestic price Cryo Recovery

Details

- Detailed Description

Homozygotes provide a molecular and phenotypic model of hereditary spherocytosis type 3 and a phenotypic model for hereditary spherocytosis type 1 and some aspects of sickle cell anemia. Most phenotypic assessment has been performed using F1 homozygous offspring of heterozygotes from the C57BL/6J and WB/Re congenic strains or homozygotes generated on a B6;WB segregating background. Approximately half die by 6 months of age. Homozygotes display hemolytic anemia with spherocytosis, microcytosis, reduced hematocrit, reticulocytosis, extramedullary hematopoiesis in the spleen and liver, lymphocytosis, neutrophilia, lymph node hyperlasia, and cardiac hypertrophy. Homozygotes can be identified within the first day of birth by their jaundiced color. Consequent to the underlying disorder, homozygotes are prone to developing gallstones, pneumonitis, and vaso-occlusive disease in multiple organs.

- Development

- Selected References

- Genetics
Spta1<sup>sph-ha</sup>

Disease/Phenotype

Disease Terms

Research Areas By Phenotype

Mammalian Phenotype Terms by Genotype

References

Technical Support

Genotyping Protocols
Genotyping resources and troubleshooting

Citation
When using the B6-hemolytic anemia mouse strain in a publication, please cite the originating article(s) and include JAX stock #000446 in your Materials and Methods section.

Animal Health Reports
Facility Barrier Level Descriptions

Production of mice from cryopreserved embryos or sperm occurs in a maximum barrier room, G200

Pricing & Availability

Cryo Recovery
Typically mice are recovered in 10-14 weeks. Contact Customer Service to place an order or for more information.

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<th>SERVICE/PRODUCT</th>
<th>DESCRIPTION</th>
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<tr>
<td>Cryo Recovery</td>
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<td>$2,854.50</td>
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