Overview

B6.CBAIlk dcl/SzJ

Stock No: 001913 | C57BL/6 scid

Congenic, Spontaneous Mutation

READILY AVAILABLE

PLACE ORDER

Sized to accommodate orders of up to 100 or more. Ask Customer Service for details.
Also Known As: B6 scid, C57BL/6 scid

These mice carry the severe combined immune deficiency mutation (scid, which is caused by a spontaneous mutation in the Prkdc gene) on the C57BL/6J strain background. The mutant mice do not have functional T or B cells, thus supporting allogeneic and xenogeneic grafts.

GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
</tr>
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<tbody>
<tr>
<td>000664 C57BL/6J</td>
<td>Contact Technical Support</td>
</tr>
<tr>
<td></td>
<td>(2018-11-30 00:00:00)</td>
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Prkdc<sup>scid</sup>

<table>
<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
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<tbody>
<tr>
<td>Spontaneous</td>
<td>Prkdc</td>
<td>protein kinase, DNA activated, catalytic polypeptide</td>
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RESEARCH APPLICATIONS

Research Tools
Internal/Organ Research
Immunology, Inflammation and Autoimmunity Research
Virology Research
Mice homozygous for the severe combined immune deficiency spontaneous mutation (Prkdc<sup>scid</sup>, commonly referred to as scid) are characterized by an absence of functional T cells and B cells, lymphopenia, hypogammaglobulinemia, and a normal hematopoietic microenvironment. Normal antigen-presenting cell, myeloid, and NK cell functions are strain dependent. scid mice carry a DNA repair defect and a defect in the rearrangement of genes that code for antigen-specific receptors on lymphocytes. Most homozygotes have no detectable IgM, IgG1, IgG2a, IgG2b, IgG3, or IgA. Thymus, lymph nodes, and splenic follicles are virtually devoid of lymphocytes. scid mice accept allogeneic and xenogeneic grafts making them an ideal model for cell transfer experiments. Some scid mice will spontaneously develop partial immune reactivity. scid mice that have serum Ig levels greater than 1 ug/ml are considered "leaky." scid leakiness is highly strain dependent, increases with age, and is higher in mice housed under non-SPF conditions. In general, scid leakiness is high on the C57BL/6J and BALB/cBy genetic backgrounds, low on the C3H/HeJ background, and even lower on the NOD/ShiLtSz background.
Genotyping Protocols
End Point Analysis: Prkdc<sup>scid</sup>
Genotyping resources and troubleshooting

Breeding Considerations

This strain is a good breeder.

Additional Breeding and Husbandry Support

Mating System
Homozygote x Homozygote

Appearance
black, affected

Related Genotype: a/a Prkdc<sup>scid</sup>/Prkdc<sup>scid</sup>

Citation
When using the C57BL/6 scid mouse strain in a publication, please cite the originating article(s) and include JAX stock #001913 in your Materials and Methods section.

Animal Health Reports

Pricing & Availability

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Domestic

<table>
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<th>AGE</th>
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### Related Strains

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<td>By Gene</td>
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<td>By Collection</td>
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All Related Strains