Overview

CB y S m n PC g e d J

Stock No: 001803

Congenic

READILY AVAILABLE

PLACE ORDER

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

Commonly referred to as BALB/c scid, these animals carry the severe combined immune deficiency mutation (scid) on the BALB/c background. This strain is very similar to the original BALB/c-Igh<sup>b</sup> scid (C.B-17 scid) strain maintained at the Institute for Cancer Research in Philadelphia, PA. Compared with our most popular scid mutant strain (NOD-scid, Stock No. 001303), the BALB/c scid does not carry the C5 complement deficient mutation, thus enabling Complement-Dependent Cytotoxicity (CDC), a major pharmacological effect of therapeutic antibodies. This is the strain of choice for efficacy testing of therapeutic antibodies in the context of transplantable tumor host.

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**GENETIC OVERVIEW**

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
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<tbody>
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**Prkdc<sup>scid</sup>**

<table>
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<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
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<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
Details

Detailed Description

Mice homozygous for the severe combined immune deficiency spontaneous mutation (Prkdc\textsuperscript{scid}, 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 μg/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 C3H/HeJ background, and even lower on the NOD/ShiLtSz background. Note: BALB/cBy mice are Igh-1\textsuperscript{a} while the original C.B-17 mice are Igh-1\textsuperscript{b}.

View Flow Cytometry Characterization Data for Immunodeficient JAX Strains

Development

Control Suggestions

Selected References

Genetics

Prkdc\textsuperscript{scid}

Disease/Phenotype

Disease Terms

Research Areas By Phenotype

Mammalian Phenotype Terms by Genotype
Genotyping Protocols
End Point Analysis: Prkdc End Point
Genotyping resources and troubleshooting

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

Breeding Considerations
This strain is a good breeder.

Additional Breeding and Husbandry Support
Mating System
Homozygote x Homozygote

Appearance
albino, affected
Related Genotype: Tyrp1<sup>b</sup>/Tyrp1<sup>b</sup> Tyr<sup>f</sup>/Tyr<sup>f</sup> Prkdc<sup>scid</sup>/Prkdc<sup>scid</sup>

Citation
When using the CBySmn.Cg-Prkdc<sup>scid</sup>/J mouse strain in a publication, please cite the originating article(s) and include JAX stock #001803 in your Materials and Methods section.

Animal Health Reports
Facility Barrier Level Descriptions
- RB16 (Maximum)
- MP13 (Maximum)

Pricing & Availability
Sized to accommodate orders of up to 100 or more. Ask Customer Service for details.

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**Cryorecovery - Domestic Pricing**

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<tr>
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Email: TechTran@jax.org

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Related Strains

- All
- By Allele
- By Gene
- By Collection

All Related Strains