Overview

CBysmncPrkJ

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\(^b\) 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.

GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Contact Technical Support</td>
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<td>(2018-07-27 00:00:00)</td>
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\(Prkdc^{scid}\)

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

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 (\textit{Prkdc}^{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 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 C3H/HeJ background, and even lower on the NOD/ShiLtSz background. Note: BALB/cBy mice are \textit{Igh-1}^{a} while the original C.B-17 mice are \textit{Igh-1}^{b}.

View Flow Cytometry Characterization Data for Immunodeficient JAX Strains

Development

Control Suggestions

Selected References

Genetics

\textit{Prkdc}^{scid}

Disease/Phenotype

Disease Terms

Research Areas By Genotype

Mammalian Phenotype Terms by Genotype
Genotyping Protocols
End Point Analysis: Prkdc\textsuperscript{scid}

Genotyping resources and troubleshooting

Dietary Information
LabDiet\textsuperscript{®} 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: Tyrp\textsuperscript{1b}/Tyrp\textsuperscript{1b} Tyr\textsuperscript{F}/Tyr\textsuperscript{F} Prkdc\textsuperscript{scid}/Prkdc\textsuperscript{scid}

Citation

When using the CB\textsuperscript{677}Smn CB17·Prkdc\textsuperscript{scid}/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

Pricing & Availability

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

<table>
<thead>
<tr>
<th>LIVE MOUSE</th>
<th>SEX</th>
<th>GENOTYPE</th>
<th>PRICE</th>
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</thead>
<tbody>
<tr>
<td>3 weeks</td>
<td>Female</td>
<td>Homozygous for Prkdc\textsuperscript{scid}</td>
<td>$80.13</td>
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<td>Male</td>
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<td>4 weeks</td>
<td>Female</td>
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<td>5 weeks</td>
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<td>Homozygous for Prkdc\textsuperscript{scid}</td>
<td>$77.65</td>
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</tbody>
</table>
We will fulfill your order by providing at least two carriers for each strain ordered. The total number, sex, and genotypes provided will vary, although typically 8 or more animals are provided. Please check genotypes which will be recovered. While the genotypes of all animals produced will be communicated to you prior to scheduling shipment, the genotypes of animals provided may not reflect the mating scheme and genotypes described in the strain description. Animals are typically ready to ship in 11-14 weeks. If a second recovery is required to produce the minimum number of animals, then delivery time would increase to approximately 25 weeks. If we fail to produce animals of the correct genotype, you will not be charged. We cannot guarantee the reproductive success of mice shipped to your facility. If the mice are lost after the first three days (post-arrival) or do not produce progeny at your facility, a new order and fee will be necessary.

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Terms of Use
General Terms and Conditions

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Phone: 207-288-6470
Email: TechTran@jax.org

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Related Strains

All

By Allele

By Gene

By Collection