C.129S2-Cd1<sup>Im1Gru</sup>/J

Stock No: 003814 | CD1 -

- Congenic, Targeted Mutation

**Overview**

**Also Known As: CD1<sup>-</sup>**

Mice homozygous for the Cd1<sup>Im1Gru</sup> knock-out mutation are deficient in both the Cd1d1 and Cd1d2 genes (CD1.1, CD1.2). Homozygous mutant mice lack the normal natural killer cell-like T cell subset.

**Donating Investigator**

Dr. Michael J. Grusby, Harvard Medical School
GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
</tr>
</thead>
<tbody>
<tr>
<td>N11F4+N2F8</td>
<td>(2018-04-03 00:00:00)</td>
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</tbody>
</table>

**Cd1<sup>tm1Gru</sup>**

<table>
<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Targeted (Null/Knockout)</td>
<td>Cd1</td>
<td>CD1 antigen complex</td>
</tr>
</tbody>
</table>

RESEARCH APPLICATIONS

Immunology, Inflammation and Autoimmunity Research

BASE PRICE

Starting at:

$271.00 Domestic price for female

Details

Detailed Description

Mice homozygous for the Cd1<sup>tm1Gru</sup> targeted mutation are deficient in both the Cd1d1 and Cd1d2 genes (CD1.1, CD1.2). Homozygous mutant mice lack the normal natural killer cell -like T cell subset. However, type 2 T helper cell (TH2) response is normal, demonstrating that this T cell subset is not required for TH2 response, as previously believed.

In an attempt to offer alleles on well-characterized or multiple genetic backgrounds, alleles are frequently moved to a genetic background different from that on which an allele was first characterized. This is the case for the strain above. It should be noted that the phenotype could vary from that originally described. We will modify the strain description if necessary as published results become available.

Development

Control Suggestions

Selected References

Genetics
Genotyping Protocols
Standard PCR: Cd1\textsuperscript{tm16ru}
MELT: Cd1\textsuperscript{tm16ru}
Genotyping resources and troubleshooting

Dietary Information
LabDiet\textsuperscript{®} 5K52 formulation (6% fat)

Breeding Considerations
This strain originated on a C;129S background and has been backcrossed to BALB/cJ (N11). It is maintained by homozygous sibling matings. Coat color expected from breeding: Albino

Additional Breeding and Husbandry Support

Mating System
Homozygote x Homozygote

Citation
When using the CD1\textsuperscript{™} mouse strain in a publication, please cite the originating article(s) and include JAX stock #003814 in your Materials and Methods section.

Animal Health Reports
Facility Barrier Level Descriptions

AX11 (Maximum)

Pricing & Availability
3–6 week average lead time depending on quantity and age requests are not accepted

Domestic International
Live Mouse

<table>
<thead>
<tr>
<th>AGE</th>
<th>SEX</th>
<th>GENOTYPE</th>
<th>PRICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Approx 4-8 weeks</td>
<td>Female</td>
<td>Homozygous for Cdi&lt;sup&gt;tm1Gr&lt;/sup&gt;</td>
<td>$271.00</td>
</tr>
<tr>
<td></td>
<td>Male</td>
<td>Homozygous for Cdi&lt;sup&gt;tm1Gr&lt;/sup&gt;</td>
<td>$271.00</td>
</tr>
</tbody>
</table>

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Related Strains

- All
- By Allele
- By Gene
- By Collection