**B6.129(Cg)-Cd44^tm1Hbg/J**

**Stock No:** 005085 | CD44 KO

- **Congenic/Targeted Mutation**

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**PLACE ORDER**

2-4 week lead time for up to 4 mice at 4-8 weeks old and age requests are not accepted

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**Also Known As:** CD44 KO

CD44 knockin/knockout allele was designed to both abolish CD44 gene function and direct lacZ expression to CD44 positive cells. Homozygous mice have defective lymphocyte trafficking to the thymus and peripheral lymph nodes.

**Donating Investigator**

IMR Colony, The Jackson Laboratory

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**GENETIC OVERVIEW**

**Genetic Background**

- **Generation**
  - N11F7
  - (2018-04-16 00:00:00)

**Cd44^tm1Hbg**

<table>
<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Targeted (Reporter, Null/Knockout)</td>
<td>Cd44</td>
<td>CD44 antigen</td>
</tr>
</tbody>
</table>

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**RESEARCH APPLICATIONS**

- Cell Biology Research
- Research Tools
- Cancer Research
- Immunology, Inflammation and Autoimmunity Research
- Hematological Research
- Developmental Biology Research
- Internal/Organ Research

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**VIEW GENETICS**  **VIEW ALL RESEARCH APPLICATIONS**
Details

Detailed Description

Mice that are homozygous for the targeted mutation are viable, fertile, normal in size and do not display any gross physical or behavioral abnormalities. No gene product (mRNA or protein) is detected. Although lymphocyte development appears unremarkable, irregularities are observed in lymphocyte trafficking. Tail-injected lymphocytes derived from null animals exhibit an impaired ability to traffic to peripheral lymph nodes, and to a much greater degree, the thymus. Transcription and translation of the targeted allele subsequently lead to the synthesis of the lacZ protein under control of the 5' regulatory elements of the endogenous locus in all cells and tissues normally expressing one or several of the CD44 isoforms.

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. 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

Expression Data

Control Suggestions

Selected References

Genetics

Cd44<sup>tm13Bo</sup>

Disease/Phenotype

Disease Terms

Research Areas By Genotype

Mammalian Phenotype Terms by Genotype

References
Technical Support

Genotyping Protocols
Standard PCR: \textit{Cd44^{tm1Hbg}}
MELT: \textit{Cd44^{tm1Hbg}}
Genotyping resources and troubleshooting

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

Breeding Considerations
When maintaining a live colony, these mice are bred as homozygotes.
Additional Breeding and Husbandry Support

Mating System
Homozygote x homozygote

Citation
When using the Cd44^{tm1Hbg} mouse strain in a publication, please cite the originating article(s) and include JAX stock #005086 in your
Materials and Methods section.

Animal Health Reports
Facility Barrier Level Descriptions

AX11 (Maximum)

Pricing & Availability

2–4 week lead time for up to 4 mice at 4-8 weeks old and age requests are not accepted

<table>
<thead>
<tr>
<th>Domestic</th>
<th>International</th>
</tr>
</thead>
<tbody>
<tr>
<td>Live Mouse</td>
<td>Pricing effective for USA, Canada and Mexico shipping destinations</td>
</tr>
</tbody>
</table>

<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 Cd44^{tm1Hbg}</td>
<td>$231.00</td>
</tr>
<tr>
<td></td>
<td>Male</td>
<td>Homozygous for Cd44^{tm1Hbg}</td>
<td>$231.00</td>
</tr>
</tbody>
</table>

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