Overview

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

Live mice available in varying quantities. Ask Customer Service for details.
GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
</tr>
</thead>
<tbody>
<tr>
<td>N11F10</td>
<td>(2019-06-13 00:00:00)</td>
</tr>
</tbody>
</table>

**Cd44<sup>tm1Hbg</sup>**

<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>

RESEARCH APPLICATIONS

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

BASE PRICE

Starting at: $238.78 Domestic price for female

Details

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
Genotyping Protocols
Standard PCR: Cd44^tm1Hbg

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

Breeding Considerations
When maintaining a live colony, these mice are bred as homozygotes.

Citation
When using the CD44 KO mouse strain in a publication, please cite the originating article(s) and include JAX stock #005085 in your Materials and Methods section.

Pricing & Availability
Live mice available in varying quantities. Ask Customer Service for details.

**Domestic**

Pricing effective for USA, Canada and Mexico shipping destinations

<table>
<thead>
<tr>
<th>Live Mouse</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 C4d4&lt;sup&gt;tmHbg&lt;/sup&gt;</td>
<td>$236.78</td>
</tr>
<tr>
<td></td>
<td>Male</td>
<td>homozygous for C4d4&lt;sup&gt;tmHbg&lt;/sup&gt;</td>
<td>$236.78</td>
</tr>
</tbody>
</table>

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The Jackson Laboratory has rigorous genetic quality control and mutant gene genotyping programs to ensure the genetic background of JAX® Mice strains as well as the genotypes of strains with identified molecular mutations. JAX® Mice strains are only made available to researchers after meeting our standards. However, the phenotype of each strain may not be fully characterized and/or captured in the strain data sheets. Therefore, we cannot guarantee a strain's phenotype will meet all expectations.

To ensure that JAX® Mice will meet the needs of individual research projects or when requesting a strain that is new to your research, we suggest ordering and performing tests on a small number of mice to determine suitability for your particular project.

**Terms Of Use**

Terms of Use

General Terms and Conditions

Licensing Information

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

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Related Strains

All

By Allele

By Gene

By Collection

All Related Strains