B6.129P2-Tcrd \textsuperscript{Im1Mom}/J

Stock No: 002120 | B6-TCRdelta-

Congenic Targeted Mutation

PLACE ORDER

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

Also Known As: B6-TCRdelta-
Mice harboring this T-cell receptor delta chain (Tcrd) knock-out are deficient in receptor expression in all adult lymphoid and epithelial organs, and these mice may be useful for studying immunology and gamma delta T-cell function.

Donating Investigator

IMR Colony, The Jackson Laboratory

READ MORE +

GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
</tr>
</thead>
<tbody>
<tr>
<td>000664 C57BL/6J</td>
<td>N13F5</td>
</tr>
<tr>
<td></td>
<td>(2016-06-29 00:00:00)</td>
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\textbf{Tcrd}^{Im1Mom}

<table>
<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
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<tbody>
<tr>
<td>Targeted (Null/Knockout)</td>
<td>Tcrd</td>
<td>T cell receptor delta chain</td>
</tr>
</tbody>
</table>

VIEW GENETICS

RESEARCH APPLICATIONS

Research Tools
Immunology, Inflammation and Autoimmunity Research
Diabetes and Obesity Research
Hematological Research

VIEW ALL RESEARCH APPLICATIONS
Mice homozygous for the Tcrd<sup>tm1Mom</sup> targeted mutation are viable and fertile. Gamma delta T-cell receptor expression is deficient in all adult lymphoid and epithelial organs. There is normal development of the alpha beta T-cell lineage. Patterns of CD4<sup>+</sup>CD8<sup>+</sup> and CD4<sup>+</sup>CD8<sup>−</sup> alpha beta T-cells are apparently normal. Mice do not develop inflammatory bowel disease. Diet-induced obesity in homozygous mice results in a reduction in insulin resistance and liver and skeletal muscle inflammation as compared to C57BL/6J controls fed high fat diet (42% fat). This strain may be useful for studying gamma delta T cells and their role in the proinflammatory response.
Genotyping Protocols
Standard PCR: \texttt{tcdr}^{\text{tm}1\text{Mom}}
MELT: \textbf{Generic Neo}
Genotyping resources and troubleshooting

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

Breeding Considerations
This strain is an exceptional breeder.
This Tcdr^{\text{tm}1\text{Mom}} strain is maintained by mating homozygous siblings. This strain should be housed under conditions similar to Prkdc^{scid}/Prkdc^{scid} mice or any other immunodeficient strain. Only homozygous mice may be ordered. Expected coat color from breeding: Black
Additional Breeding and Husbandry Support

Mating System
Homozygote x Homozygote

Appearance
black
Related Genotype: a/a

Citation
When using the B6-Tcdr敲入 mouse strain in a publication, please cite the originating article(s) and include JAX stock #002120 in your Materials and Methods section.
Facility Barrier Level Descriptions

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

Repository Live

Domestic | International
Pricing effective for USA, Canada and Mexico shipping destinations

<table>
<thead>
<tr>
<th>AGE</th>
<th>SEX</th>
<th>GENOTYPE</th>
<th>PRICE</th>
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<tbody>
<tr>
<td>Approx 4-8 weeks</td>
<td>Female</td>
<td>Homozygous for Tcdr^{\text{tm}1\text{Mom}}</td>
<td>$231.00</td>
</tr>
<tr>
<td></td>
<td>Male</td>
<td>Homozygous for Tcdr^{\text{tm}1\text{Mom}}</td>
<td>$231.00</td>
</tr>
</tbody>
</table>

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