R E A D  M O R E  +

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

GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
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</thead>
<tbody>
<tr>
<td>000664 C57BL/6J</td>
<td>N14F1</td>
</tr>
<tr>
<td></td>
<td>(2019-03-04 00:00:00)</td>
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<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>
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</table>

RESEARCH APPLICATIONS

Research Tools

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

PLACE ORDER

Email  Download PDF  Help
Mice homozygous for the \textit{Tcrd}^{\text{tm1Mom}} 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^+CD8^- and CD4^-CD8^+ 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: Generic Neo
Standard PCR: Tcrd

Genotyping resources and troubleshooting

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

Breeding Considerations

This strain is an exceptional breeder.

This strain is maintained by mating homozygous siblings. This strain should be housed under conditions similar to Prkdc<sup>scid</sup>/Prkdc<sup>scid</sup> 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-TCRdelta- mouse strain in a publication, please cite the originating article(s) and include JAX stock #002120 in your Materials and Methods section.

Animal Health Reports
Facility Barrier Level Descriptions

- AX10 (Standard)

Pricing & Availability

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

Available Now

### Live Mouse

<table>
<thead>
<tr>
<th>AGE</th>
<th>SEX</th>
<th>GENOTYPE</th>
<th>PRICE</th>
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<tr>
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<td>tm1Mom</td>
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Phone: 207-288-6470
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