B6.129P2-Tcrd Im1Mom/J

Stock No: 002120 | B6-TCRdelta-

Congenic, Targeted Mutation

AVAILABLE NOW

PLACE ORDER

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

Overview

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

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

BASE PRICE
Starting at:
$234.78 Domestic price for female 4-week

Details

Detailed Description
Mice homozygous for the Tcrd^lm1Mom 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.

Development

Control Suggestions

Selected References

Genetics

Tcrd^lm1Mom
Genotyping Protocols
Standard PCR: Tcrd<sup>tm1Mom</sup>
MELT: Generic Neo
Genotyping resources and troubleshooting

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

Breeding Considerations

This strain is an exceptional breeder.
This Tcrd<sup>tm1Mom</sup> 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 BC-Tcrd<sub>2</sub> mouse strain in a publication, please cite the originating article(s) and include JAX stock #002120 in your Materials and Methods section.

Animals

Facility Barrier Level Descriptions

AX10 (Standard)

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

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<th>AGE</th>
<th>SEX</th>
<th>GENOTYPE</th>
<th>PRICE</th>
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