Also Known As: muMt

Homozygous mutant mice lack mature B cells. There is no expression of membrane-bound IgM, although some B cells may be produced using a C gene other than mu. It may be useful as a model for B cell immunodeficiency found in humans.

Donating Investigator

Klaus Rajewsky, Max Delbruck Centre for Molecular Medicine

GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Targeted (Null/Knockout)</td>
<td>IgΔm</td>
<td>immunoglobulin heavy constant mu</td>
</tr>
</tbody>
</table>
Mice homozygous for the $Ighm^{f1Cgn}$ targeted mutation are viable and fertile. Homozygous mutant mice lack mature B cells. There is no expression of membrane-bound IgM, although some B cells may be produced using a C gene other than $mu$. It may be useful as a model for B cell immunodeficiency found in humans. Also known as $muMT$. 
Disease/Phenotype

Disease Terms

Research Areas By Phenotype

Mammalian Phenotype Terms by Genotype

References

Technical Support

Genotyping Protocols
Standard PCR: Ig hon
Genotyping resources and troubleshooting
Dietary Information
LabDiet® 5K52 formulation (6% fat)
Breeding Considerations
This strain is a good breeder.
Additional Breeding and Husbandry Support
Mating System
Homozygote x Homozygote
Appearance
black
Related Genotype: a/a
Citation
When using the muMt mouse strain in a publication, please cite the originating article(s) and include JAX stock #002288 in your Materials and Methods section.

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<table>
<thead>
<tr>
<th>AGE</th>
<th>SEX</th>
<th>GENOTYPE</th>
<th>PRICE</th>
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</thead>
<tbody>
<tr>
<td>3 weeks</td>
<td>Female</td>
<td>Homozygous for Ighm $tm^Cgn$</td>
<td>$130.81</td>
</tr>
<tr>
<td></td>
<td>Male</td>
<td>Homozygous for Ighm $tm^Cgn$</td>
<td>$130.81</td>
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<tr>
<td>4 weeks</td>
<td>Female</td>
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<td></td>
<td>Male</td>
<td>Homozygous for Ighm $tm^Cgn$</td>
<td>$130.81</td>
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<td>5 weeks</td>
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<td></td>
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<td>$130.81</td>
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<tr>
<td>6 weeks</td>
<td>Female</td>
<td>Homozygous for Ighm $tm^Cgn$</td>
<td>$135.96</td>
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<td></td>
<td>Male</td>
<td>Homozygous for Ighm $tm^Cgn$</td>
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<tr>
<td>7 weeks</td>
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<td>$141.11</td>
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<td></td>
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<td>8 weeks</td>
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<tr>
<td>9 weeks</td>
<td>Female</td>
<td>Homozygous for Ighm $tm^Cgn$</td>
<td>$151.41</td>
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</tbody>
</table>

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Phone: 207-288-6470
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