B6;129-Rcan1^{tm1,jmo}\text{/J}

Additional Use Restrictions Apply

Stock No: 009072

Targeted Mutation

Overview

Homozygous Rcan1 (regulator of calcineurin 1) targeted mice demonstrate an approximate 10% reduction in body weight as adults and diminished fertility as they age. Mice show a significant reduction of NFAT (nuclear factor of activated T cells) transcriptional activity that is sustained in mouse embryonic fibroblasts (MEFs) for eight hours after thapsigargin stimulation to increase intracellular \( \text{Ca}^{2+} \). This evidence suggests a facilitator role for the gene in efficient calcineurin-NFAT coupling. Mice are also resistant to induced cardiac hypertrophy.

Genetic overview

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
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<tbody>
<tr>
<td>Rcan1 (^{tm1,jmo})</td>
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<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>Rcan1</td>
<td>regulator of calcineurin 1</td>
</tr>
</tbody>
</table>

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