Mice homozygous for this Akt2 (thymoma viral proto-oncogene 2) mutant allele develop insulin resistance, hyperglycemia, impaired glucose tolerance, abnormal glucose uptake in muscle tissue, increased pancreatic beta-cell mass, and diabetes.

Donating Investigator
Morris J. Birnbaum, Un of Pennsylvania Schl of Medicine
Mice homozygous for this Akt2 (thymoma viral proto-oncogene 2) mutant allele are viable and fertile. Homozygotes develop insulin resistance, hyperglycemia, impaired glucose tolerance, abnormal glucose uptake in muscle tissue, increased pancreatic beta-cell mass, and diabetes.

In an attempt to offer alleles on well-characterized or multiple genetic backgrounds, alleles are frequently moved to a genetic background different from that on which an allele was first characterized. It should be noted that the phenotype could vary from that originally described. We will modify the strain description if necessary as published results become available.
Genotyping Protocols
Standard PCR: Akt2
Genotyping resources and troubleshooting

Breeding Considerations
When maintaining a live colony, heterozygous or homozygous mice can be bred. Homozygous mice may have impaired fecundity as a result of diabetic phenotype.

Additional Breeding and Husbandry Support

Citation
When using the B6.129P2(Cg)-Akt2<sup>tm1.1Mbb</sup>/J mouse strain in a publication, please cite the originating article(s) and include JAX stock #006966 in your Materials and Methods section.

Animal Health Reports
Facility Barrier Level Descriptions

Production of mice from cryopreserved embryos or sperm occurs in a maximum barrier room, G200

Pricing & Availability

Typically mice are recovered in 10-14 weeks. Contact Customer Service to place an order or for more information.

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<tr>
<th>SERVICE/PRODUCT</th>
<th>DESCRIPTION</th>
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<tr>
<td>Cryo Recovery</td>
<td>Heterozygous or Wild-type for Cg-Akt2&lt;tm1.1Mbb&gt;</td>
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Phone: 207-288-6470
Email: TechTran@jax.org

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- By Allele
- By Gene
- By Collection