KK.Cg-A 1/J

Stock No: 002468

Congenic

Overview

Also Known As: KK-Ay, KKAy
Mice homozygous for the yellow spontaneous mutation (A^y) die before implantation or shortly thereafter. Heterozygotes usually become obese and infertile within a few months after birth. Heterozygotes are more susceptible to several kinds of tumors than are normal mice. Further, spleen cells from heterozygotes cause a significantly lower graft vs. host reaction. Mice of the KK strain develop diabetes of polygenic origin, and KK.Cg-A^y/J heterozygotes develop hyperglycemia, hyperinsulinemia, glucose intolerance and obesity by eight weeks of age. Pancreatic islets are hypertrophied and the β-cells are degranulated. Both the fat and lean tissue mass are increased compared to non-obese mice, with fat accounting for 30-35% of total body weight.

Genetic overview

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<th>Genetic Background</th>
<th>Generation</th>
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<td>KK/Upj</td>
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