RIII/S/J mice have prolonged bleeding times with normal platelet activity and low levels of factor VIII:C and plasma von Willebrand factor antigen, making it a good animal model for human von Willebrand disease. RIII/S/J mice also produce a low antibody response to several bacterial polysaccharide antigens and are reported to be resistant to collagen induced arthritis. RIII/S/J mice carry a spontaneous mutation, ldis1, that leads to a partial or complete disruption of the lens and cataract formation.
This strain is currently unavailable due to replenishing of cryopreserved stocks.

RIIIIS/J mice have prolonged bleeding times with normal platelet activity and low levels of factor VIII:C and plasma von Willebrand factor antigen, making it a good animal model for human von Willebrand disease. This bleeding tendency is an incomplete dominant, autosomal trait. RIIIIS/J mice also produce a low antibody response to several bacterial polysaccharide antigens and are reported to be resistant to collagen induced arthritis. Despite a B cell immunodeficiency, RIIIIS/J mice develop severe experimental autoimmune myasthenia gravis (EAMG) (Tuzun et al., 2004).

RIII/J have a high incidence of mammary tumors and ovarian tumors. RIIIIS/J mice carry Mtv8, and Mtv14, but high incidence of tumors has not been reported in these mice. In fact, some studies indicate a resistance to chemically induced tumors. RIIIIS/J mice have been reported to develop far fewer lung tumors than A/J or SWR/J mice subsequent to Urethan treatment. BALB/c x RIII F1 males are also highly resistant to diethylstilbestrol-cholesterol induced testicular tumors even though BALB/c is highly susceptible. RIIIIS/J mice carry a spontaneous mutation, idis1, that leads to a partial or complete disruption of the lens and cataract (Jablonski M., et al, 2004).
Genotyping Protocols
Genotyping resources and troubleshooting
Dietary Information
LabDiet® 5K52 formulation (6% fat)

Appearance
albino
Related Genotype: Tyr<sup>c</sup>/Tyr<sup>c</sup>
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