WB/ReJ Kit w/J

Stock No: 000692 | WB

Segregating Inbred Spontaneous Mutation

AVAILABLE NOW

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Sized to accommodate orders of up to 10 or more with age range. Ask Customer Service for details.
Also Known As: WB
Kit mice possess pleiotropic defects in pigment-forming cells, germ cells, RBC’s and mast cells. In addition, they exhibit impaired resistance to parasitic infection and an intrinsic progenitor cell defect. The lack of germ cells in homozygous mutant mice leads to the development of some ovarian tumors (mesotheliomas and granulosa cell), associated with an overproduction of pituitary gonadotropic hormone. Kit mice generally have a well-defined belly spot with sharp edges and a very variable amount of white in the dorsal coat.
Important Note
This strain is homozygous for the retinal degeneration allele Pde6b<sup>rd1</sup>.

Detailed Description
Kit mice possess pleiotropic defects in pigment-forming cells, germ cells, RBC's and mast cells. In addition, they exhibit impaired resistance to parasitic infection and an intrinsic progenitor cell defect. The lack of germ cells in homozygous mutant mice leads to the development of some ovarian tumors (mesotheliomas and granulosa cell), associated with an overproduction of pituitary gonadotropin hormone.

Development

Control Suggestions

Selected References

Genetics

Pde6b<sup>rd1</sup>

Kit<sup>W</sup>

Disease/Phenotype

Disease Terms

Research Areas By Genotype

Mammalian Phenotype Terms by Genotype
Genotyping Protocols
Sanger sequencing: Kit<sup>W</sup>-SEQ
Genotyping resources and troubleshooting

Dietary Information
LabDiet® 5K52 formulation (6% fat)

Breeding Considerations

This strain is a challenging breeder.

Wildtype mice from this colony frequently show small belly spots on an otherwise non-diluted black background. Attempts to breed away from this phenotype can reduce the incidence, but can not fully eliminate it.

Additional Breeding and Husbandry Support

Mating System
+/+ sibling x Heterozygote
Heterozygote x +/- sibling

Appearance
diluted black with white belly spot, occasionally has white head blaze, tail has white tip, affected
Related Genotype: a/a Kit<sup>W</sup>/+

non-diluted black, frequently have small belly spots, unaffected
Related Genotype: a/a +/-

Citation
When using the WBB mouse strain in a publication, please cite the originating article(s) and include JAX stock #000692 in your Materials and Methods section.

Animal Health Reports
Facility Barrier Level Descriptions
AXS (Standard)

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Pricing & Availability

Sized to accommodate orders of up to 10 or more with age range. Ask Customer Service for details.

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- By Allele
- By Gene
- By Collection