

B6.Cg-Kitl^{Sl} Krt71^{Ca} /J

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locus cause severe anemia *in utero* and death by 15 to 16 days of gestation in homozygous mutant mice. However, compounds of two steel mutants (e.g. *Kitl^{Sl}/Kitl^{Sl-d}* are viable, black-eyed white, are usually sterile in one or both sexes, and have severe macrocytic anemia. Heterozygous steel mice have a diluted coat color with a small amount of white spotting, are viable and fertile, and may have a slight macrocytic anemia. Primordial germ cells are absent in the nonviable steel homozygotes and severely reduced in steel heterozygotes. Mast cells are virtually absent in skin and other tissues of steel mutant mice. Tumors tend to develop in germ-cell-deficient ovaries with adva...

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GENETIC OVERVIEW

Genetic Background **Generation**

000663 C57BL/6By

Krt71^{Ca}

Alele Type	Gene Symbol	Gene Name
Spontaneous	<i>Krt71</i>	keratin 71

Kitl^{Sl}

Alele Type	Gene Symbol	Gene Name
Spontaneous	<i>Kitl</i>	kit ligand

VIEW GENETICS

RESEARCH APPLICATIONS

Cancer Research
Dermatology Research

Developmental Biology Research
Endocrine Deficiency Research
Reproductive Biology Research
Research Tools
Immunology, Inflammation and Autoimmunity Research
Neurobiology Research

V I E W A L L R E S E A R C H A P P L I C A T I O N

BASE PRICE

Starting at:

\$2,854.50 Domestic price Cryo Recovery

V I E W P R I C E L I S T

Details

Detailed Description

The multiple steel mutations (Kit^{Sl}) behave in a semidominant fashion and cause deficiencies in pigment cells, germ cells, and blood cells paralleling those caused by the *Kit* locus mutations (dominant spotting alleles). Most of the alleles at steel locus cause severe anemia *in utero* and death by 15 to 16 days of gestation in homozygous mutant mice. However, compounds of two steel mutants (e.g. Kit^{Sl}/Kit^{Sl-d}) are viable, black-eyed white, are usually sterile in one or both sexes, and have severe macrocytic anemia. Heterozygous steel mice have a diluted coat color with a small amount of white spotting, are viable and fertile, and may have a slight macrocytic anemia. Primordial germ cells are absent in the nonviable steel homozygotes and severely reduced in steel heterozygotes. Mast cells are virtually absent in skin and other tissues of steel mutant mice. Tumors tend to develop in germ-cell-deficient ovaries with advancing age.

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. This is the case for the strain above. 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.

Control Suggestions

Genetics

$Krt71^{Ca}$

[+ *Kitl^{Sl}*](#)

[- Disease/Phenotype](#)

[+ Disease Terms](#)

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C O N T A C T T E C H N I C A L S U P P O R T

Genotyping Protocols
[Genotyping resources and troubleshooting](#)

Citation

When using the B6.Cg-*Kitl^{Sl} Krt71^{Ca}*/J mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #000124 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](#)

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SERVICE/PRODUCT	DESCRIPTION	PRICE
Cryo Recovery	Heterozygous or Wild-type for <i>Kitl</i> <Sl>, Heterozygous or Wild-type for <i>Krt71</i> <Ca>	\$2,854.50

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