

B6.129S-*Abl1*^{tm1Mlg} /J

Stock No: **009417**

 Congenic, Targeted Mutation

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

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Donating Investigator

Stephen P. Goff, Columbia University

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GENETIC OVERVIEW

Genetic Background

Generation

Abl1^{tm1Mlg}

Alele Type

Gene Symbol

Gene Name

Targeted (Null/Knockout)

Abl1

c-abl oncogene 1, non-receptor tyrosine kinase

VIEW GENETICS

RESEARCH APPLICATIONS

Immunology, Inflammation and Autoimmunity Research
Developmental Biology Research
Reproductive Biology Research

VIEW ALL RESEARCH APPLICATIONS

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

In this strain, the targeted mutation replaces exon 5 and part of exon 6 of the *c-abl* oncogene 1, non-receptor tyrosine kinase gene, *Abl1* with a neomycin resistance (neo) cassette, abolishing gene function. Mice heterozygous for this allele are viable, fertile, and normal in size. Homozygous *c-Abl^{-/-}* mice exhibit no abnormal phenotype before birth. After birth 95% of all homozygotes become runted and 85% develop lymphopenia. During the first week of age fatty vacuoles are evident in hepatocytes and some hepatic degeneration is evident. Spleens are severely atrophied, as are thymuses which show a severe deficiency in thymocytes. The few remaining thymocytes are only single positive CD4 or CD8 T cells. During the first 3 weeks of life 7% of the homozygotes are runted and died and 6% disappear, leaving approximately 7% of homozygous mutants. The few that survived to 3 or 4 months of age exhibited megaesophagus, anal prolapsed, aspiration pneumonia, and signs of infection in the nasal passages and ears. Mutants weighing 50% of the weight of controls had 50% fewer bone marrow cells, whereas mutant thymocytes decreased 20- to 500-fold in number. These mice may be useful for studying cell proliferation, survival and migration, as well as lymphopoiesis and hematopoiesis.

+ Development

+ Control Suggestions

+ Selected References

- Genetics

+ *Abl1^{tm1Mlg}*

- Disease/Phenotype

+ Disease Terms

+ Research Areas By Phenotype

+ Mammalian Phenotype Terms by Genotype

+ References

Technical Support

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

Standard PCR:[Abl1](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

When maintained as a live colony, heterozygotes may be bred. Viability of homozygotes is reduced and surviving males have reduced fertility.

[Additional Breeding and Husbandry Support](#)

Citation

When using the B6.129S-*Abl1*^{tm1Mg}/J mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #009417 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



Cryo
Recovery

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

Domestic International

Pricing effective for USA, Canada and Mexico shipping destinations

Cryorecovery - Domestic Pricing

SERVICE/PRODUCT	DESCRIPTION	PRICE
Cryo Recovery	Heterozygous or wildtype for <i>Abl1</i> <tm1Mg>	\$2,854.50

Related Products and Services

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