

B6.129X1-Cd2ap^{tm1Shaw}/J

Stock No: **008907**

 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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detected as early as 2 weeks of age, indicating kidney dysfunction. Heterozygotes show increased susceptibility to glomerular injury by nephrotoxic antibodies or immune complexes.

Donating Investigator

Dr. Andrey Shaw, Washington University School of Medicine

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GENETIC OVERVIEW

Genetic Background

Generation

Cd2ap^{tm1Shaw}

Alele Type

Targeted (Null/Knockout)

Gene Symbol

Cd2ap

Gene Name

CD2-associated protein

VIEW GENETICS

RESEARCH APPLICATIONS

Internal/Organ Research

Developmental 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

Homozygous targeted mutant mice begin to show growth retardation at about 3 weeks of age, and die at approximately 6 weeks. Cardiac hypertrophy, splenic and thymic atrophy, and ascites may be found upon postmortem examination. Proteinuria can be detected as early as 2 weeks of age, indicating kidney dysfunction. The predominant kidney pathology involves glomeruli which become sclerotic by 4 weeks. CD2AP protein is not detected in the thymus, kidney, liver or spleen of homozygous targeted animals. Naive and cultured T cells show increased sensitivity to antigen, increased proliferation, increased number of cell divisions and increased apoptosis compared to wild type cells. Heterozygotes show increased susceptibility to glomerular injury by nephrotoxic antibodies or immune complexes.

Development

Selected References

Genetics

Cd2ap^{tm1Shaw}

Disease/Phenotype

Disease Terms

Research Areas By Phenotype

Mammalian Phenotype Terms by Genotype

References

Technical Support

CONTACT TECHNICAL SUPPORT

Genotyping Protocols

Standard PCR:[Cd2ap](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

When maintained as a live colony, heterozygotes may be bred. Homozygotes die at 6-7 weeks of age.

[Additional Breeding and Husbandry Support](#)

Citation

When using the B6.129X1-*Cd2ap*^{tm1Shaw}/J mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #008907 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 Wild-type for Cd2ap<tm1Shaw>	\$2,854.50

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo	B6.129X1-Cd2ap<tm1Shaw>/J	\$2595.00
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THE JACKSON LABORATORY'S GENOTYPE PROMISE

The Jackson Laboratory has rigorous genetic quality control and mutant gene genotyping programs to ensure the genetic background of JAX® Mice strains as well as the genotypes of strains with identified molecular mutations. JAX® Mice strains are only made available to researchers after meeting our standards. However, the phenotype of each strain may not be fully characterized and/or captured in the strain data sheets. **Therefore, we cannot guarantee a strain's phenotype will meet all expectations.** To ensure that JAX® Mice will meet the needs of individual research projects or when requesting a strain that is new to your research, we suggest ordering and performing tests on a small number of mice to determine suitability for your particular project. We do not guarantee [breeding performance](#) and therefore suggest that investigators order more than one breeding pair to avoid delays in their research.

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[Use of MICE by companies or for-profit entities requires a license prior to shipping.](#)

LICENSING INFORMATION

Phone: 207-288-6470

Email: TechTran@jax.org

☰ Related Strains

All

By Allele

By Gene

By Collection



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