

B6;129S4-Ighm^{tm1Che}/J

Stock No: 003751

 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

Jianzhu Chen, MIT Center for Cancer Research

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GENETIC OVERVIEW

Genetic Background

Generation

Ighm^{tm1Che}

Alele Type

Gene Symbol

Gene Name

Targeted (Null/Knockout)

Ighm

immunoglobulin heavy constant mu

VIEW GENETICS

RESEARCH APPLICATIONS

Immunology, Inflammation and Autoimmunity Research

Research Tools

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

Mice homozygous for the *Ighm*^{tm1Che} allele are viable, fertile and exhibit no apparent defects. While membrane expressed *Ighm*^{tm1Che} is unhindered, these mice are unable to produce the secreted form of *Ighm*^{tm1Che}. Increases in some classes of serum Ig is noted in young animals (IgA, IgG2a and IgG3), but these differences are largely absent in the adult animals. The IgG1 antibody response to suboptimal doses of a T cell-dependent antigen is impaired. Conversely, the IgG2a antibody response to a T cell-independent antigen appears augmented. An approximately three-fold increase in B-1 lymphocytes is noted in the spleen and peritoneum.

Development

Control Suggestions

Selected References

Genetics

Ighm^{tm1Che}

Disease/Phenotype

Disease Terms

Research Areas By Phenotype

Mammalian Phenotype Terms by Genotype

- 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:[Ighm Alternate1](#)
[Genotyping resources and troubleshooting](#)

Breeding Considerations

Heterozygotes and homozygotes are viable and fertile. Homozygous mice are more susceptible to pathogenic bacteria, so conventional specific pathogen-free (SPF) conditions are recommended.

[Additional Breeding and Husbandry Support](#)

Citation

When using the B6;129S4-Ighm^{tm1Che}/J mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #003751 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



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Domestic | International

Pricing effective for USA, Canada and Mexico shipping destinations

CRYORECOVERY - DOMESTIC PRICING		
SERVICE/PRODUCT	DESCRIPTION	PRICE
Cryo Recovery	Heterozygous or wildtype for Ighm<tm1Che>	\$2,854.50

PAYMENT TERMS AND CONDITIONS

Terms are granted by individual review and stated on the customer invoice(s) and account statement. These transactions are payable in U.S. currency within the granted terms. Payment for services, products, shipping containers, and shipping costs that are rendered are expected within the payment terms indicated on the invoice or stated by contract. Invoices and account balances in arrears of stated terms may result in The Jackson Laboratory pursuing collection activities including but not limited to outside agencies and court filings.

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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Q U E S T I O N S A B O U T T E R M S O F U S E

LICENSING INFORMATION

Phone: 207-288-6470

Email: TechTran@jax.org

Related Strains

All

By Allele

By Gene

By Collection






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Yes No