B6;129S4-Ighm™1Che/J

Stock No: 003751

Targeted Mutation

REQUEST CRYORECOVERY

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

Also Known As: B6;129S4-Igh-6™1Che/J

These Ighm knock-out mice are unable to produce the secreted form of Ighm™1Che and exhibit an increase in B-1 lymphocytes in the spleen and peritoneum.

Donating Investigator

Jianzhu Chen, MIT Center for Cancer Research

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GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ighm™1Che</td>
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<table>
<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
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<tbody>
<tr>
<td>Targeted (Null/Knockout)</td>
<td>Ighm</td>
<td>immunoglobulin heavy constant mu</td>
</tr>
</tbody>
</table>

VIEW GENETICS

RESEARCH APPLICATIONS

Immunology, Inflammation and Autoimmunity Research
Research Tools

VIEW ALL RESEARCH APPLICATIONS

BASE PRICE

Starting at:
Details

Detailed Description
Mice homozygous for the IgM \(^{tm1Che}\) allele are viable, fertile and exhibit no apparent defects. While membrane expressed IgM \(^{tm1Che}\) is unhindered, these mice are unable to produce the secreted form of IgM \(^{tm1Che}\). 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

IgM \(^{tm1Che}\)

Disease/Phenotype

Disease Terms

Research Areas By Genotype

Mammalian Phenotype Terms by Genotype

References

Technical Support

Genotyping Protocols
High Resolution Melting: IgM \(^{tm1Che}\) 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 Bl/129S6-Jgkee<tm1Che> mouse strain in a publication, please cite the originating article(s) and include JAX stock #003751 in your Materials and Methods section.

Facility Barrier Level Descriptions
Production of mice from cryopreserved embryos or sperm occurs in a maximum barrier room, G200

Pricing & Availability

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

<table>
<thead>
<tr>
<th>SERVICE</th>
<th>GENOTYPE</th>
<th>PRICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cryo Recovery</td>
<td>Heterozygous or wildtype for lghm&lt;tm1Che&gt;</td>
<td>$2,595.00</td>
</tr>
</tbody>
</table>

We will fulfill your order by providing at least two carriers for each strain ordered. The total number, sex, and genotypes provided will vary, although typically 8 or more animals are provided. Please check genotypes which will be recovered. While the genotypes of all animals produced will be communicated to you prior to scheduling shipment, the genotypes of animals provided may not reflect the mating scheme and genotypes described in the strain description. Animals are typically ready to ship in 11-14 weeks. If a second recovery is required to produce the minimum number of animals, then delivery time would increase to approximately 25 weeks. If we fail to produce animals of the correct genotype, you will not be charged. We cannot guarantee the reproductive success of mice shipped to your facility. If the mice are lost after the first three days (post-arrival) or do not produce progeny at your facility, a new order and fee will be necessary.

Cryorecovery to establish a Dedicated Supply for greater quantities of mice. Mice recovered can be used to establish a dedicated colony to contractually supply you mice according to your requirements. Price by quotation.

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.

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