B6.129S1-Lyve1 tm1Lhua/J

Stock No: 006221 | CRSBP-1 KO

Congenic, 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: CRSBP-1 KO

Homozygous Lyve1 tm1Lhua knock-out mice exhibit abnormal lymphatic capillary vessel morphology in the liver and intestines with increased intradermal interstitial-lymphatic flow.

Donating Investigator

Jung S. Huang, St. Louis University School of Medicine

GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
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Lyve1 tm1Lhua

<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>Lyve1</td>
<td>lymphatic vessel endothelial hyaluronan receptor 1</td>
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RESEARCH APPLICATIONS

Immunology, Inflammation and Autoimmunity Research
Internal/Organ Research
Research Tools
Cancer Research
Developmental Biology Research
Cardiovascular Research
Homozygotes are viable and fertile, and produce normal-sized litter. No gross phenotypic or behavioral abnormalities have been reported, even in older (2 year old) mice. Homozygous mutants express neither endogenous RNA or protein in liver tissue. Lymphatic capillary vessel morphology in the liver and intestines of homozygous mice is abnormal, with vessels having distended or rounded lumens in contrast to the smaller, typically collapsed, irregular shapes observed in wildtype controls. Intradermal interstitial-lymphatic flow also is increased. Syngenic tumor cell transplants into grow more rapidly and robustly in homozygous mutant mice compared with transplants into wildtype mice, and develop porous interstitial spaces. These mutant mice may be useful in studies of structural and functional characteristics of the lymphatic system, cell-surface retention sequence (CRS) motif-containing growth factor secretion, autocrine and paracrine regulation of cell growth, as well as of cancer and the mechanisms of metastasis.
Genotyping Protocols
Standard PCR: Lyve1<sup>tm1Lhua</sup>
Genotyping resources and troubleshooting

Breeding Considerations
When maintaining a live colony, these mice can be bred as homozygotes.
Additional Breeding and Husbandry Support

Citation
When using the CrispR-1 KO mouse strain in a publication, please cite the originating article(s) and include JAX stock #006221 in your Materials and Methods section.

Animal Health Reports
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.

<table>
<thead>
<tr>
<th>Domestic</th>
<th>International</th>
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<tbody>
<tr>
<td>Cryorecovery - Domestic Pricing</td>
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<tr>
<th>SERVICE</th>
<th>GENOTYPE</th>
<th>PRICE</th>
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<tbody>
<tr>
<td>Cryo Recovery</td>
<td>Heterozygous for Lyve1&lt;sup&gt;tm1Lhua&lt;/sup&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.

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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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