B6.129P2-Ccl5<sup><em>lmo1</em>lsp/J</sup>

Stock No: 005090 | RANTES KO

Congenic, Targeted Mutation

Available

PLACE ORDER

Live mice available in varying quantities. Ask Customer Service for details.

Overview

Also Known As: RANTES KO

Homozygous mice have a reduced number of CD4<sup>+</sup> splenic T-cells, and delayed-type hypersensitivity (DTH) response (swelling) is impaired. In vitro T cell proliferation, IFN-gamma and IL2 production is diminished. This mutant mouse strain may be useful in studies of delayed-type hypersensitivity and inflammatory responses.

Donating Investigator

Theodore M Danoff, University of Pennsylvania
GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>N9+N3F10</td>
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<tr>
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<td>(2019-06-13 00:00:00)</td>
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**Ccl5tm1Hso**

<table>
<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
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<tr>
<td>Targeted (Null/Knockout)</td>
<td>Ccl5</td>
<td>chemokine (C-C motif) ligand 5</td>
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</table>

VIEW GENETICS

RESEARCH APPLICATIONS

Immunology, Inflammation and Autoimmunity Research

VIEW ALL RESEARCH APPLICATIONS

BASE PRICE

Starting at:

$278.00 Domestic price for female

VIEW PRICE LIST

Details

Detailed Description

Mice that are homozygous for the targeted mutation are viable, fertile, normal in size and do not display any gross physical or behavioral abnormalities. No gene product (mRNA) is detected by Northern blot analysis of lipopolysaccharide (LPS) stimulated peritoneal exudates cells. Homozygous mice have a reduced number of CD44 high CD4+ splenic T-cells. Delayed-type hypersensitivity (DTH) response (swelling) is impaired in homozygous mice sensitized with subcutaneous injection of keyhole limpet hemocyanin or bovine purified protein derivative. Immunohistochemical analysis of the DTH treated footpads reveals that the numbers of infiltrating macrophages is decreased, while infiltrating CD4+ and CD8+ T cells numbers remain unchanged. In vitro T cell proliferation, IFN-gamma and IL2 production is diminished. This mutant mouse strain may be useful in studies of delayed-type hypersensitivity and inflammatory responses.

Development

Control Suggestions

Selected References

Genetics
Genotyping Protocols
Standard PCR: Ccl5<sup>tm1Hgo</sup>
High Resolution Melting: Ccl5<sup>tm1Hgo</sup>
Genotyping resources and troubleshooting

Dietary Information
LabDiet® 5K52 formulation (6% fat)

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

Mating System
Homozygote x Homozygote

Citation
When using the JANES K.C. mouse strain in a publication, please cite the originating article(s) and include JAX stock #005090 in your Materials and Methods section.
Facility Barrier Level Descriptions
- AX11 (Maximum)

Pricing & Availability
Live mice available in varying quantities. Ask Customer Service for details.
Live Mouse

<table>
<thead>
<tr>
<th>AGE</th>
<th>SEX</th>
<th>GENOTYPE</th>
<th>PRICE</th>
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<tr>
<td>Approx 4-8 weeks</td>
<td>Female</td>
<td>Homozygous for Ccl5&lt;sup&gt;tm1His&lt;/sup&gt;</td>
<td>$278.00</td>
</tr>
<tr>
<td></td>
<td>Male</td>
<td>Homozygous for Ccl5&lt;sup&gt;tm1His&lt;/sup&gt;</td>
<td>$278.00</td>
</tr>
</tbody>
</table>

Related Products and Services

Frozen Mouse Embryo $2,595.00 per straw or vial

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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Related Strains

All

By Allele

By Gene

By Collection

All Related Strains
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