B6;129 β1 integrin floxed

Stock No: 004605 | β1 integrin floxed

Targeted Mutation

Available

Place Order

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

Overview

Also Known As: β1 integrin floxed
These floxed mutant mice possess loxP sites flanking exon 3 of the Itgb1 gene. This strain may be useful for generating conditional mutations in applications related to studies of epithelium and endothelium function and development.

Donating Investigator
Elaine Fuchs, The Rockefeller University

GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
</tr>
</thead>
<tbody>
<tr>
<td>B6;129</td>
<td>N1F5+F34</td>
</tr>
</tbody>
</table>
Itgb1<sup>tm1Efu</sup>

<table>
<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Targeted (Conditional ready (e.g. floxed), No functional change)</td>
<td>Itgb1</td>
<td>integrin beta 1 (fibronectin receptor beta)</td>
</tr>
</tbody>
</table>

RESEARCH APPLICATIONS
Research Tools
Developmental Biology Research

BASE PRICE
Starting at:
$278.00 Domestic price for female

Details

Detailed Description
These mice possess <i>loxP</i> sites on either side of exon 3 of the targeted gene. Mice that are homozygous for this allele are viable, fertile, normal in size and do not display any gross physical or behavioral abnormalities.

When bred to a strain expressing Cre recombinase in the epithelial cells of the intestine (see Stock No. 004586 for example), this mutant mouse strain may be useful in studies of intestinal hyperplasia.

When bred to a strain expressing Cre recombinase in the podocytes of the kidney glomeruli (see Stock No. 008205 for example), this mutant mouse strain may be useful in studies of glomerular structural integrity.

Development

Control Suggestions

Selected References

Genetics

Itgb1<sup>tm1Efu</sup>
Genotyping Protocols

End Point Analysis: \( \text{Itgb}1^{\text{tm1Efu}} \)-EP
Standard PCR: \( \text{Itgb}1^{\text{tm1Efu}} \)

Genotyping resources and troubleshooting

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

Breeding Considerations
Resulting chimeric animals were bred to C57BL/6J mice once before being made homozygous. Expected coat colors are: dark brown (almost black) it is suspected that they are a/a Tyr<ch>/Tyr<ch>.

Additional Breeding and Husbandry Support

Mating System
Homozygote x Homozygote

Citation
When using the β1 integrin floxed mouse strain in a publication, please cite the originating article(s) and include JAX stock #004605 in your Materials and Methods section.

Pricing & Availability

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

<table>
<thead>
<tr>
<th>AGE</th>
<th>SEX</th>
<th>GENOTYPE</th>
<th>PRICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Approx 4-8 weeks</td>
<td>Female</td>
<td>Homozygous for ( \text{Itgb}1^{\text{tm1Efu}} )</td>
<td>$278.00</td>
</tr>
</tbody>
</table>
Related Products and Services

<table>
<thead>
<tr>
<th>Product Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frozen Mouse Embryo  B6;129-Itgb1&lt;tm1Efu&gt;/J Frozen Embryos</td>
<td>$2595.00</td>
</tr>
</tbody>
</table>

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Related Strains

- All
- By Allele
- By Gene
- By Collection

All Related Strains