B6.129S7-Selp^{im1Bay}\text{/J}

Stock No: 002289 | P-selectin^{-}

Congenic, Targeted Mutation

PLACE ORDER

3-6 week average lead time depending on quantity and age requests are not accepted

Also Known As: P-selectin^{-}
Mice homozygous for Selp^{im1Bay} show a deficit in leukocyte rolling and delayed neutrophil extravasation in response to intraperitoneal injections of thioglycollate. The strain can be used as model for human leukocyte adhesion deficiency I syndrome.

Donating Investigator
Dr. Arthur Beaudet, Baylor College of Medicine

GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
</tr>
</thead>
<tbody>
<tr>
<td>000664 C57BL/6J</td>
<td>N10F56</td>
</tr>
<tr>
<td></td>
<td>(2018-04-02 00:00:00)</td>
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</table>

Selp^{im1Bay}

<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>Selp</td>
<td>selectin, platelet</td>
</tr>
</tbody>
</table>

RESEARCH APPLICATIONS

Immunology, Inflammation and Autoimmunity Research

VIEW GENETICS

VIEW ALL RESEARCH APPLICATIONS

BASE PRICE
Starting at:
Details

Detailed Description

Mice homozygous for the Selp\(^{tm1Bay}\) mutation are viable and fertile. Homozygous mutant mice show a deficit in leukocyte rolling and delayed neutrophil extravasation in response to intraperitoneal injections of thioglycollate. Neutrophil count is elevated (2-3-fold). Circulating lymphocyte and monocyte counts are normal. 60-70% reduction in neutrophil emigration into the peritoneum during Streptococcus pneumoniae-induced peritonitis is reduced 60-70%. It can be used as model for human leukocyte adhesion deficiency I syndrome (characterized by elevated levels of circulating leukocytes and impaired leukocyte extravasation to sites of inflammation or infection).

Development

Control Suggestions

Selected References

Genetics

Selp\(^{tm1Bay}\)

Disease/Phenotype

Disease Terms

Research Areas By Genotype

Mammalian Phenotype Terms by Genotype

References

Technical Support

CONTACT TECHNICAL SUPPORT

Genotyping Protocols

MELT: Selp\(^{tm1Bay}\)
Standard PCR: Selp\(^{tm1Bay}\)
Genotyping resources and troubleshooting
Dietary Information
LabDiet® 5K52 formulation (6% fat)

Mating System
Homozygote x Homozygote

Appearance
black
Related Genotype: a/a

Citation
When using the P-selectin® mouse strain in a publication, please cite the originating article(s) and include JAX stock
Animal Health Reports
#002289 in your Materials and Methods section.
Facility Barrier Level Descriptions
AX11 (Maximum)

Pricing & Availability
3–6 week average lead time depending on quantity and age requests are not accepted
Repository Live

Domestic | International
Pricing effective for USA, Canada and Mexico shipping destinations

<table>
<thead>
<tr>
<th>Live Mouse</th>
<th>AGE</th>
<th>SEX</th>
<th>GENOTYPE</th>
<th>PRICE</th>
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<tbody>
<tr>
<td></td>
<td>Approx 4-8 weeks</td>
<td>Female</td>
<td>Homozygous for Selp&lt;sub&gt;Im1Bay&lt;/sub&gt;</td>
<td>$255.00</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Male</td>
<td>Homozygous for Selp&lt;sub&gt;Im1Bay&lt;/sub&gt;</td>
<td>$255.00</td>
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</tbody>
</table>

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Related Strains

All

By Allele

By Gene

By Collection

All Related Strains

Can't find the mouse model you need? BUILD IT WITH CRISPR

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Leading the search for

TOMORROW'S CURES