B6.129P2-Syk<sup>tm1.2Tara/J</sup>

Stock No: 017309 | Syk conditional

Congenic, Targeted Mutation

PLACE LAST ORDER
Live colonies of this strain will be removed soon

Also Known As: Syk conditional

Estimated Removal of Live Colony date: 08 November 2018

This strain carries a conditional floxed allele of the Sykb (spleen tyrosine kinase) gene. When crossed with a Cre strain tissue/cell specific excision may be helpful with studies the immune, cardiovascular or skeletal systems.

Donating Investigator

Alexander Tarakhovsky, The Rockefeller University

GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>N8+F13</td>
</tr>
<tr>
<td></td>
<td>(2018-08-08 00:00:00)</td>
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<table>
<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
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</thead>
<tbody>
<tr>
<td>Targeted (Conditional ready</td>
<td>Syk</td>
<td>spleen tyrosine</td>
</tr>
<tr>
<td>(e.g. floxed), No functional</td>
<td></td>
<td>kinase)</td>
</tr>
<tr>
<td>change)</td>
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VIEW GENETICS

RESEARCH APPLICATIONS

Research Tools

VIEW ALL RESEARCH APPLICATIONS
Details

Detailed Description

In this conditional Sykb (spleen tyrosine kinase) mutant strain, exon 1 has been flanked by loxP sites. When crossed with a Cre recombinase-expressing strain, these mice are useful in eliminating tissue-specific expression of the gene. Homozygous floxed mice are fully viable and fertile.

Homozygous null mice show a variety of defects including high rates of perinatal lethality, abnormal vascular morphology, abnormal osteoclast differentiation, impaired neutrophil phagocytosis, and defects in B cell development.

For example, when bred to a strain carrying Tg(Cr2-cre)3Cgn (Stock No. 006368), Cre recombinase expression in mature B cells results in an altered B cell phenotype.

Development

Control Suggestions

Selected References

Genetics

Syk^tm12tara

Disease/Phenotype

Disease Terms

Research Areas By Genotype

Mammalian Phenotype Terms by Genotype

References

Technical Support
Genotyping Protocols
Standard PCR: Syk\textsuperscript{tm1.2Tara}
Genotyping resources and troubleshooting

Dietary Information
New Diet as of March 2015: Lab Diet® 5K0Q (6% fat)

Breeding Considerations
Homozygotes or heterozygotes may be bred to maintain a colony.
Additional Breeding and Husbandry Support

Mating System
Homozygote x Homozygote

Citation
When using the Syk conditional mouse strain in a publication, please cite the originating article(s) and include JAX stock #017309 in your Materials and Methods section.

Animal Health Reports
Facility Barrier Level Descriptions
AX10 (Standard)

Pricing & Availability
Live colonies of this strain will be removed soon

Repository Live

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

<table>
<thead>
<tr>
<th>AGE</th>
<th>SEX</th>
<th>GENOTYPE</th>
<th>PRICE</th>
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<tbody>
<tr>
<td>Approx 4-8 weeks</td>
<td>Female</td>
<td>Homozygous for Syk\textsuperscript{tm1.2Tara}</td>
<td>$271.00</td>
</tr>
<tr>
<td></td>
<td>Male</td>
<td>Homozygous for Syk\textsuperscript{tm1.2Tara}</td>
<td>$271.00</td>
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</tbody>
</table>

Related Products and Services

- Frozen Mouse Embryo $2,595.00 per straw or vial

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All

By Allele

By Gene

By Collection

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