B6.129S2-Tap1<sup>tm1Arp</sup>/J

Stock No: 002944

Congenic, Targeted Mutation

REPOSITORY LIVE

PLACE ORDER

2–4 week lead time for most orders depending on quantity and age range requested

Mice homozygous mice for Tap1<sup>tm1Arp</sup> lack CD4<sup>+</sup> T cells. They are defective in the stable assembly and intracellular transport of class I molecules, and show severely reduced levels of class I surface molecules. This phenotype is similar to human beings with TAP1 and TAP2 deficiencies.

Donating Investigator

IMR Colony, The Jackson Laboratory

READ MORE +

GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
</tr>
</thead>
<tbody>
<tr>
<td>00664 C57BL/6J</td>
<td>N10F40</td>
</tr>
<tr>
<td></td>
<td>(2018-12-21 00:00:00)</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Targeted (Null/Knockout)</td>
<td>Tap1</td>
<td>transporter 1, ATP-binding cassette, sub-family B (MDR/TAP)</td>
</tr>
</tbody>
</table>

VIEW GENETICS

RESEARCH APPLICATIONS

Immunology, Inflammation and Autoimmunity Research
Research Tools

VIEW ALL RESEARCH APPLICATIONS

BASE PRICE

Starting at:
$271.00 Domestic price for female

VIEW PRICE LIST

Details

Detailed Description

Mice homozygous mice for the Tap1^{tm1Arp} targeted mutation are viable and fertile. They are defective in the stable assembly and intracellular transport of class I molecules. They show severely reduced levels of class I surface molecules. They lack CD4^8^ T cells. This phenotype is similar to the mouse RMA-S cell line and human beings with TAP1 and TAP2 deficiencies. This strain should be housed under pathogen free conditions similar to the Prkdc^{scid}/Prkdc^{scid} mouse or any other immunodeficient strain.

Development

Control Suggestions

Selected References

Genetics

Tap1^{tm1Arp}

Disease/Phenotype

Disease Terms

Research Areas By Genotype

Mammalian Phenotype Terms by Genotype

References

Technical Support

CONTACT TECHNICAL SUPPORT

Genotyping Protocols

High Resolution Melting: Tap1^{tm1Arp} Alternate2
Genotyping resources and troubleshooting

Dietary Information

LabDiet® 5K52 formulation (6% fat)
Breeding Considerations
The Tap1 deficient strain is maintained by homozygous sibling matings. This strain should be housed under pathogen free conditions similar to the Prkdc<sup>scid</sup>/Prkdc<sup>scid</sup> mouse or any other immunodeficient strain. The expected coat color from breeding is Black.

Additional Breeding and Husbandry Support

Mating System
Homozygote x Homozygote

Appearance
black
Related Genotype: a/a

Citation
When using the B6.129S2-Tap<sup>tm1Arp</sup>/J mouse strain in a publication, please cite the originating article(s) and include JAX stock #002944 in your Materials and Methods section.
Facility Barrier Level Descriptions

FGB29 (Standard)

Pricing & Availability

2–4 week lead time for most orders depending on quantity and age range requested

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>
</tr>
</thead>
<tbody>
<tr>
<td>Approx 4–8 weeks</td>
<td>Female</td>
<td>Homozygous for Tap&lt;sup&gt;tm1Arp&lt;/sup&gt;</td>
<td>$271.00</td>
</tr>
<tr>
<td></td>
<td>Male</td>
<td>Homozygous for Tap&lt;sup&gt;tm1Arp&lt;/sup&gt;</td>
<td>$271.00</td>
</tr>
</tbody>
</table>

Related Products and Services

Frozen Mouse Embryo $2,595.00 per straw or vial

Payment Terms and Conditions
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Email: TechTran@jax.org

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Related Strains

All

By Allele

By Gene

By Collection

All Related Strains

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