Overview

The allele Thy1\textsuperscript{a} determines an antigenic specificity, Thy-1.1, found in the AKR and RF strains. This strain can be used in experiments designed to determine the distribution and function of T-cells, and has been used to study the role of T-cell subsets as a function of underlying diabetes development.

Genetic Overview

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
</tr>
</thead>
<tbody>
<tr>
<td>001289 NOD/ShiLt</td>
<td>N21+N1F8</td>
</tr>
<tr>
<td></td>
<td>(2019-08-26 00:00:00)</td>
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</tbody>
</table>

Thy1\textsuperscript{a}

<table>
<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not Applicable</td>
<td>Thy1</td>
<td>thymus cell antigen 1, theta</td>
</tr>
</tbody>
</table>
RESEARCH APPLICATIONS
Diabetes and Obesity Research
Immunology, Inflammation and Autoimmunity Research
Research Tools

BASE PRICE
Starting at:
$236.78 Domestic price for female

Details

Detailed Description
Thy1 is one of the pan T cell markers and is expressed on thymocytes, peripheral T cells, myoblasts, epidermal cells, and keratinocytes. This congenic is useful for the adoptive transfer of diabetes in the NOD/ShiLtJ mouse model. Donor T cells can be easily distinguished from recipient T cells by both flow cytometric and histological analysis.

Development

Control Suggestions

Selected References

Genetics

Thy1

Disease/Phenotype

Disease Terms

Research Areas By Genotype

Mammalian Phenotype Terms by Genotype

References
Genotyping Protocols
End Point Analysis: Thy1\(^{a}\) End Point
Genotyping resources and troubleshooting

Dietary Information
LabDiet\(^{\circ}\) 5K52 formulation (6% fat)

Mating System
Homozygote x Homozygote

Appearance
albino
Related Genotype: Tyr\(^{c}\)/Tyr\(^{c}\)

Citation
When using the NOD NON-Thy1\(^{a}\)/1LtJ mouse strain in a publication, please cite the originating article(s) and include JAX stock #004453 in your Materials and Methods section.

Animal Health Reports
Facility Barrier Level Descriptions
AX10 (Standard)

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Pricing & Availability

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

### Domestic

- **Live Mouse**

<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 Thy1(^{a})</td>
<td>$236.78</td>
</tr>
<tr>
<td></td>
<td>Male</td>
<td>Homozygous for Thy1(^{a})</td>
<td>$236.78</td>
</tr>
</tbody>
</table>

### Related Products and Services

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

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Related Strains

All

By Allele

By Gene

By Collection

All Related Strains

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