**NOD.129S7(B6)-Iltgal<sup>im1Bl</sup>/CgJ**

Stock No: 016898 | NOD-Cd11a

- Congenic Targeted Mutation

### CRYO RECOVERY

Typically mice are recovered in 10-14 weeks. Contact Customer Service to place an order or for more information.
Also Known As: NOD-Cd11a
This diabetes resistant congenic NOD. Itgal deficient mutant may be useful to further study the role of leukocyte intergrins in inflammatory disease models, specifically Type 1 Diabetes.

Donating Investigator
Dr. Christopher G. Kevil, LSU Health Sciences Center

GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
</tr>
</thead>
<tbody>
<tr>
<td>001976 NOD/ShiLtJ</td>
<td></td>
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</table>

<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>Itgal</td>
<td>integrin alpha L</td>
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RESEARCH APPLICATIONS

Diabetes and Obesity Research
Immunology, Inflammation and Autoimmunity Research
Cell Biology Research
Hematological Research

BASE PRICE
Starting at:

$2,595.00 Domestic price Cryo Recovery

Details

Detailed Description

Mice that are homozygous for the targeted mutation are viable, fertile, normal in size and do not display any gross physical or behavioral abnormalities. NOD females homozygous for the Itgal mutation (commonly referred to as LFA1 or CD11a) remain normoglycemic to 34 weeks of age. Histological evaluation indicated the pancreatic islets were mostly normal, but some lymphocytic infiltrates were observed. Cd18, Cd11a and Cd49 expression are significantly reduced in splenic CD3 T-cells. Adoptive transfer
experiments utilizing NOD-Rag1 mutant mice that received splenocytes from NOD-lgal mutant mice did not become diabetic and no insulitis was observed. However, there were more leukocytes and CD3+T-cells found than in control transfer experiments.

NODShiLtJ mice carrying the Itgal mutation may be useful to further study the role of leukocyte intergrins in T-cell activation leading to insulitis and Type 1Diabetes.

Genotyping Protocols
High Resolution Melting: Itgal<sup>tm1Bll</sup>-Alternate 1
Genotyping resources and troubleshooting

Breeding Considerations
While maintaining a live colony this strain was mated homozygous x homozygous.
Additional Breeding and Husbandry Support

Citation
When using the NOD-CD11a mouse strain in a publication, please cite the originating article(s) and include JAX stock #016898 in your Materials and Methods section.
Production of mice from cryopreserved embryos or sperm occurs in a maximum barrier room, G200
Pricing & Availability

Typically mice are recovered in 10-14 weeks. Contact Customer Service to place an order or for more information.

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

<table>
<thead>
<tr>
<th>Cryorecovery - Domestic Pricing</th>
<th>GENOTYPE</th>
<th>PRICE</th>
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</thead>
<tbody>
<tr>
<td>Cryo Recovery</td>
<td>Heterozygous or wildtype for Iltgal&lt;tm1Bli&gt;</td>
<td>$2,595.00</td>
</tr>
</tbody>
</table>

We will fulfill your order by providing at least two carriers for each strain ordered. The total number, sex, and genotypes provided will vary, although typically 8 or more animals are provided. **Please check genotypes which will be recovered.** While the genotypes of all animals produced will be communicated to you prior to scheduling shipment, the genotypes of animals provided may not reflect the mating scheme and genotypes described in the strain description. **Animals are typically ready to ship in 11-14 weeks.** If a second recovery is required to produce the minimum number of animals, then delivery time would increase to approximately 25 weeks. If we fail to produce animals of the correct genotype, you will not be charged. We cannot guarantee the reproductive success of mice shipped to your facility. If the mice are lost after the first three days (post-arrival) or do not produce progeny at your facility, a new order and fee will be necessary.

Cryorecovery to establish a Dedicated Supply for greater quantities of mice. Mice recovered can be used to establish a dedicated colony to contractually supply you mice according to your requirements. Price by quotation.

Payment Terms and Conditions
Terms are granted by individual review and stated on the customer invoice(s) and account statement. These transactions are payable in U.S. currency within the granted terms. Payment for services, products, shipping containers, and shipping costs that are rendered are expected within the payment terms indicated on the invoice or stated by contract. Invoices and account balances in arrears of stated terms may result in The Jackson Laboratory pursuing collection activities including but not limited to outside agencies and court filings.

The Jackson Laboratory’s Genotype Promise
The Jackson Laboratory has rigorous genetic quality control and mutant gene genotyping programs to ensure the genetic background of JAX® Mice strains as well as the genotypes of strains with identified molecular mutations. JAX® Mice strains are only made available to researchers after meeting our standards. However, the phenotype of each strain may not be fully characterized and/or captured in the strain data sheets. Therefore, we cannot guarantee a strain’s phenotype will meet all expectations. To ensure that JAX® Mice will meet the needs of individual research projects or when requesting a strain that is new to your research, we suggest ordering and performing tests on a small number of mice to determine suitability for your particular project.

Terms of Use

Terms of Use
General Terms and Conditions

Questions about Terms of Use

 LICENSING INFORMATION
Phone: 207-288-6470
Email: TechTran@jax.org

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### Related Strains

- **All**
- **By Allele**
- **By Gene**