B6.129S7-Itgad<sup>tm1Bll</sup>/J

Stock No: 005258 | CD11d-KO

![Congenic Targeted Mutation](image)

**CRYO RECOVERY**

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

Also Known As: CD11d-KO

These Itgad knock-out mice exhibit reduced CD3 and CD28 expression levels, and CD4+ to CD8+ cell ratios.

**Donating Investigator**

Christie M. Ballantyne, Baylor College of Medicine

**GENETIC OVERVIEW**

<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>Itgad</td>
<td>integrin, alpha D</td>
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</table>

**RESEARCH APPLICATIONS**

Cell Biology Research
Immunology, Inflammation and Autoimmunity 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. No gene product (protein) is detected by flow cytometry analysis of splenocytes and peripheral leucocytes. T cells from mutant mice exhibit reduced CD3 and CD28 expression levels, and CD4+ to CD8+ cell ratios. Superantigen (staphylococcal enterotoxin) challenge reveals impaired splenocyte response and T cell proliferation. This mutant mouse strain may be useful in studies of T cell development and proliferation, and leukocyte adhesion deficiency type I (LAD1).

Development

Control Suggestions

Selected References

Genetics

*l*gtad*<sup>im<sub>Bll</sub></sup>

Disease/Phenotype

Disease Terms

Research Areas By Genotype

Mammalian Phenotype Terms by Genotype

References

Technical Support

Genotyping Protocols
Separated PCR: *ltgad<sub>im1Bll</sub>*
Separated PCR: *ltgad<sub>im1Bll</sub>*
Genotyping resources and troubleshooting
Breeding Considerations
When maintaining a live colony, these mice are bred as homozygotes.

Additional Breeding and Husbandry Support

Citation
When using the CD1 x iKO mouse strain in a publication, please cite the originating article(s) and include JAX stock #005258 in your Materials and Methods section.

Facility Barrier Level Descriptions
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.

<table>
<thead>
<tr>
<th>Cryo Recovery</th>
<th>Domestic</th>
<th>International</th>
</tr>
</thead>
<tbody>
<tr>
<td>SERVICE</td>
<td>GENOTYPE</td>
<td>PRICE</td>
</tr>
<tr>
<td>Cryo Recovery</td>
<td>Heterozygous for Itgad&lt;tm1Bll&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.

Cryo recovery 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.

Related Products and Services

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

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.

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

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**Related Strains**

- All
- By Allele
- By Gene
- By Collection

All Related Strains
Leading the search for
TOMORROW'S CURES