**B6.129S2-H2<sup>diAb1-Ea</sup>/J**

*Stock No: 003584 | MHC II* -

![Congenic, Targeted Mutation](image)

**PLEASE INQUIRE**

**PLACE ORDER**

Ask Customer Service for an anticipated lead time

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**Also Known As: MHC II<sup>−</sup>**

This strain lacks MHC class II genes H2-Ab1, H2-Aa, H2-Eb1, H2-Eb2, H2-Ea, serving as an appropriate background for developing xenogenic Class II MHC transgenic strains.

**Donating Investigator**

IMR Colony, The Jackson Laboratory

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**GENETIC OVERVIEW**

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
</tr>
</thead>
<tbody>
<tr>
<td>000664 C57BL/6J</td>
<td>N13F15</td>
</tr>
</tbody>
</table>

(2018-04-02 00:00:00)
**H2diAb1-Aa**

<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>H2</td>
<td>histocompatibility-2, MHC</td>
</tr>
</tbody>
</table>

**RESEARCH APPLICATIONS**

Immunology, Inflammation and Autoimmunity Research
Internal/Organ Research
Research Tools

**BASE PRICE**
Starting at:

$236.78 Domestic price for female 4-week

**Details**

**Detailed Description**

Mice that are homozygous null for MHC class II genes H2-Ab1, H2-Aa, H2-Eb1, H2-Eb2, H2-Ea are viable, fertile, normal in size and do not display any gross physical or behavioral abnormalities. MHC class II gene products (mRNA or protein) are not detected. A dramatic decrease is observed in the number of CD4 positive T cells in thymus, spleen and lymph nodes. This strain should serve as a suitable recipient of xenogenic Class II MHC transgenes allowing the engineering of mouse models of human MHC Class II-associated diseases.

In an attempt to offer alleles on well-characterized or multiple genetic backgrounds, alleles are frequently moved to a genetic background different from that on which an allele was first characterized. This is the case for the strain above. It should be noted that the phenotype could vary from that originally described. We will modify the strain description if necessary as published results become available.

**Development**

**Control Suggestions**

**Selected References**

**Genetics**

H2diAb1-Aa
Genotyping Protocols
MELT: $H_2^{diAbt-Ea}$ Alternate 2
Genotyping resources and troubleshooting

Dietary Information
LabDiet® 5K52 formulation (6% fat)

Breeding Considerations
This strain originated on a mixed B6,129S background and is maintained on a congenic B6,129 background. Reproduction is fair. The strain is immunodeficient and sensitive to poor microbiological conditions. Pneumocystis can be a problem. Expected coat color expected from breeding: Black.

Additional Breeding and Husbandry Support
Mating System
Homozygote x Homozygote

Citation
When using the MUC11 mouse strain in a publication, please cite the originating article(s) and include JAX stock #003584 in your Materials and Methods section.

Animal Health Reports
Facility Barrier Level Descriptions
- AX11 (Maximum)

Pricing & Availability
Ask Customer Service for an anticipated lead time

Domestic International
Pricing effective for USA, Canada and Mexico shipping destinations
Live Mouse
<table>
<thead>
<tr>
<th>AGE</th>
<th>SEX</th>
<th>GENOTYPE</th>
<th>PRICE</th>
</tr>
</thead>
</table>
| 4 weeks | Female | Homozygous for H2
\[\text{d}^{\text{A}1}-\text{Ea}\] | $236.78 |
| | Male | Homozygous for H2
\[\text{d}^{\text{A}1}-\text{Ea}\] | $236.78 |
| 5 weeks | Female | Homozygous for H2
\[\text{d}^{\text{A}1}-\text{Ea}\] | $236.78 |
| | Male | Homozygous for H2
\[\text{d}^{\text{A}1}-\text{Ea}\] | $236.78 |
| 6 weeks | Female | Homozygous for H2
\[\text{d}^{\text{A}1}-\text{Ea}\] | $236.78 |
| | Male | Homozygous for H2
\[\text{d}^{\text{A}1}-\text{Ea}\] | $236.78 |
| 7 weeks | Female | Homozygous for H2
\[\text{d}^{\text{A}1}-\text{Ea}\] | $236.78 |
| | Male | Homozygous for H2
\[\text{d}^{\text{A}1}-\text{Ea}\] | $236.78 |
| 8 weeks | Female | Homozygous for H2
\[\text{d}^{\text{A}1}-\text{Ea}\] | $236.78 |
| | Male | Homozygous for H2
\[\text{d}^{\text{A}1}-\text{Ea}\] | $236.78 |

### 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.

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### Terms Of Use

**Terms of Use**

- [General Terms and Conditions](#)

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**Licensing Information**

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

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- By Gene
- By Collection
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