These Ahr knock-out mice exhibit a spectrum of hepatic defects.

**Donating Investigator**

Christopher A Bradfield, University of Wisconsin-Madison

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### GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ahr&lt;sup&gt;tm1Bra&lt;/sup&gt;</td>
<td></td>
</tr>
</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>Ahr</td>
<td>aryl-hydrocarbon receptor</td>
</tr>
</tbody>
</table>

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### RESEARCH APPLICATIONS

- Internal/Organ Research
- Developmental Biology Research
- Research Tools
- Metabolism Research
- Cancer Research
- Hematological Research

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Typically mice are recovered in 10-14 weeks. Contact Customer Service to place an order or for more information.
Mice homozygous for the targeted mutation are viable. Homozygotes do not respond to aryl-hydrocarbon receptor agonists. They show reduced liver weight (25% decrease) delayed extramedullary hematopoiesis, and transient hepatic microvesicular steatosis.
Technical Support

Genotyping Protocols
Separated PCR: Ahr
Standard PCR: Ahr Alternate 1
Genotyping resources and troubleshooting

Breeding Considerations

Homzygous females are poor mothers and have small litters. Expected coat color from breeding: Black

Additional Breeding and Husbandry Support

Appearance
black
Related Genotype: a/a
Citation
When using the Ahr null mouse strain in a publication, please cite the originating article(s) and include JAX stock #002831 in your Materials and Methods section.

Animal Health Reports
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>Service/Product</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cryo Recovery</td>
<td>Heterozygous or wildtype for Ahr&lt;tm1Bra&gt;</td>
<td>$2,854.50</td>
</tr>
</tbody>
</table>

Frozen Mouse Embryo: B6.129-Ahr<tm1Bra>/J Frozen Embryos $2,595.00
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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Related Strains

All

By Allele

By Gene

By Collection

All Related Strains