STOCK Arid1a<sup>tm1.1Zhwa</sup>/<sup>J</sup>

Stock No: 027717 | BAF250a<sup>f</sup>

Targeted Mutation

3–6 week average lead time depending on quantity and age requests are not accepted

Also Known As: BAF250a<sup>f</sup>, 129-Arid1a<sup>tm1.1Zhwa</sup>/<sup>J</sup>

BAF250a<sup>f</sup> floxed mice have loxP sites flanking exon 8 of the AT rich interactive domain 1A (SWI-like) (Arid1a) gene. This strain may be useful for generating conditional mutations for use in applications related to BAF250a-mediated chromatin remodeling and ES cell self-renewal, differentiation, and cell lineage decisions.

Donating Investigator
Zhong Wang, University of Michigan

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Donating Investigator
Zhong Wang, University of Michigan

GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
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<tbody>
<tr>
<td>?+pN1F7</td>
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Arid1a<sup>tm1.1Zhwa</sup>

<table>
<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
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<tr>
<td>Targeted (Conditional ready (e.g. floxed), No functional change)</td>
<td>Arid1a</td>
<td>AT rich interactive domain 1A (SWI-like)</td>
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VIEW GENETICS

RESEARCH APPLICATIONS

Research Tools
Cell Biology Research

VIEW ALL RESEARCH APPLICATIONS
Details

Detailed Description

BAF250a^{flx} floxed mice possess loxP sites flanking exon 8 of the AT rich interactive domain 1A (SWI-like) (Arid1a) gene. BAF250a is a subunit of an ATP-dependent BAF chromatin remodeling complex, in the SNF/SWI superfamily. BAF250a is required for transcriptional activation of genes normally repressed by chromatin. Homozygotes are viable and fertile. When these mutant mice are bred to mice that express Cre recombinase, resulting offspring will have exon 8 deleted in cre-expressing tissues. Studies of BAF250a-conditional KO embryos results in embryonic lethality showing the requirement for BAF250a during embryonic development.

Development

Control Suggestions

Selected References

Genetics

Arid1a^{tm1.12hwa}

Disease/Phenotype

Disease Terms

Research Areas By Genotype

Mammalian Phenotype Terms by Genotype

References

Technical Support
**Genotyping Protocols**

Standard PCR: Arid1a^{tm1.12hwa}-Alternate 1

Genotyping resources and troubleshooting

**Breeding Considerations**

When maintaining a live colony mice homozygous for the floxed allele may be bred together.

Additional Breeding and Husbandry Support

**Mating System**

Homozygote x Homozygote

**Citation**

When using the B6F2Flm1.12hwa mouse strain in a publication, please cite the originating article(s) and include JAX stock #027717 in your Materials and Methods section.

**Facility Barrier Level Descriptions**

- AX18 (Maximum)

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### Pricing & Availability

3–6 week average lead time depending on quantity and age requests are not accepted

**Repository Live**

[Domestic - International]

**Pricing effective for USA, Canada and Mexico shipping destinations**

<table>
<thead>
<tr>
<th>AGE</th>
<th>SEX</th>
<th>GENOTYPE</th>
<th>PRICE</th>
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<tr>
<td>Approx 4-8 weeks</td>
<td>Female</td>
<td>Homozygous for Arid1a^{tm1.12hwa}</td>
<td>$263.00</td>
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<tr>
<td></td>
<td>Male</td>
<td>Homozygous for Arid1a^{tm1.12hwa}</td>
<td>$263.00</td>
</tr>
</tbody>
</table>

**Related Products and Services**

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

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By Gene

By Collection

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