**B6.129-Tnfrsf1a<sup>im1Mak</sup>**

**Stock No:** 002818 | TNFRp55-deficient

- Congenic, Targeted Mutation

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**PLACE ORDER**

2-4 week lead time for up to 4 mice at 4-8 weeks old and age requests are not accepted

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**Also Known As:** Tnfr1, TNFRp55-deficient

Cells from homozygous Tnfrsf1a<sup>im1Mak</sup> mutant mice lack expression of TNFRp55, and TNF signaling is largely abolished. These mice may be useful in studying the multiple biological activities of tumor necrosis factor.

**Donating Investigator**

Dr. Tak Mak, University Health Network/Un of Toronto

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**GENETIC OVERVIEW**

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
</tr>
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<tbody>
<tr>
<td>?+N2F11</td>
<td>00:00:00</td>
</tr>
</tbody>
</table>

**Tnfrsf1a<sup>im1Mak</sup>**

<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>Tnfrsf1a</td>
<td>tumor necrosis factor receptor superfamily, member 1a</td>
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**RESEARCH APPLICATIONS**

Cancer Research
Immunology, Inflammation and Autoimmunity Research
Apoptosis Research

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**BASE PRICE**
Mice homozygous for the Tnfrsf1a^{tm1Mak} targeted mutation (formerly Tnfr1^{tm1Mak}) have normal thymocyte development, lymphocyte populations and clonal deletion of potentially self-reactive T cells. TNF signaling is largely abolished, with no TNF induction of NF-kB. Homozygous mutant mice are resistant to lethal dosages of either lipopolysaccharides or S. aureus enterotoxin but succumb to L. monocytogenes infection. TNFRSF1an may also protect against atherosclerotic lesion development in mice fed an atherogenic diet.
Breeding Considerations

This strain is a good breeder.
When maintaining a live colony, homozygous mice may be bred together.

Additional Breeding and Husbandry Support

Mating System
Homozygote x Homozygote

Appearance
Expected coat color from breeding: Black
Related Genotype: a/a

Citation
When using the TNfrsfl1m1Mak deficient mouse strain in a publication, please cite the originating article(s) and include JAX stock #002818 in your Materials and Methods section.

Animal Health Reports

Facility Barrier Level Descriptions

 AX12 (Maximum)

Pricing & Availability

2–4 week lead time for up to 4 mice at 4-8 weeks old and age requests are not accepted

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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</thead>
<tbody>
<tr>
<td>Approx 4-8 weeks</td>
<td>Female</td>
<td>Homozygous for Tnfrsfl1m1Mak</td>
<td>$231.00</td>
</tr>
<tr>
<td></td>
<td>Male</td>
<td>Homozygous for Tnfrsfl1m1Mak</td>
<td>$231.00</td>
</tr>
</tbody>
</table>

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