**B6.129P2-Fcgr3<sup>tm1Jose/J</sup>**

**Stock No:** 003171 | Fc RIII

- Congenic, Targeted Mutation

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**Also Known As: Fc RIII**

Homozygous mice deficient for the ligand-binding alpha chain of Fc gamma RIII lack NK cell-mediated antibody-dependent cytotoxicity and phagocytosis of IgG1-coated particles by macrophages.

**Donating Investigator**

Dr. J. S. Verbeek, Leiden University Medical Center

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**GENETIC OVERVIEW**

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
</tr>
</thead>
<tbody>
<tr>
<td>N9F3</td>
<td>(2018-04-02 00:00:00)</td>
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</tbody>
</table>

**Fcgr3<sup>tm1Jose</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>Fcgr3</td>
<td>Fc receptor, IgG, low affinity III</td>
</tr>
</tbody>
</table>

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**RESEARCH APPLICATIONS**

Immunology, Inflammation and Autoimmunity Research

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**BASE PRICE**

Starting at:
Details

Detailed Description
Mice homozygous for the Fcgr3^{tm1Sjv} targeted mutation, which eliminates the ligand-binding alpha chain of FcgammaRIII, are viable and fertile. Homozygous mutant mice lack NK cell-mediated antibody-dependent cytotoxicity, phagocytosis of IgG1-coated particles by macrophages, and IgG-mediated mast cell degranulation. They are resistant to IgG-dependent passive cutaneous anaphylaxis, and exhibit an impaired Arthus reaction.

Development

Control Suggestions

Selected References

Genetics

Fcgr3^{tm1Sjv}

Disease/Phenotype

Disease Terms

Research Areas By Genotype

Mammalian Phenotype Terms by Genotype

References

Technical Support

Genotyping Protocols
Standard PCR: Fcgr3^{tm1Sjv}
Genotyping resources and troubleshooting

Dietary Information
LabDiet® 5K52 formulation (6% fat)
Breeding Considerations
When maintaining a live colony, these mice can be bred as homozygotes. The expected coat color from breeding is black.

Additional Breeding and Husbandry Support

Mating System
Homozygote x Homozygote

Appearance
black
Related Genotype: a/a

Citation
When using the Fcgr3tm1Jnv mouse strain in a publication, please cite the originating article(s) and include JAX stock #003171 in your Materials and Methods section.

Facility Barrier Level Descriptions

Pricing & Availability

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

<table>
<thead>
<tr>
<th>Live Mouse</th>
<th>AGE</th>
<th>SEX</th>
<th>GENOTYPE</th>
<th>PRICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Approx 4-8 weeks</td>
<td>Female</td>
<td>Homozygous for Fcgr3tm1Jnv</td>
<td>$271.00</td>
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<tr>
<td>Male</td>
<td>Homozygous for Fcgr3tm1Jnv</td>
<td>$271.00</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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