B6.129S2-Cd4^tm1Mak/J

Stock No: 002663 | CD4 KO

- Congenic Targeted Mutation

AVAILABLE NOW

PLACE ORDER

Sized to accommodate orders of up to 10 or more with age range. Call Customer Service for details.

Also Known As: CD4 KO

Mice homozygous for the Cd4^tm1Mak targeted mutation have a significant block in CD4+ T-cell development. Cell surface expression of CD4 protein is not detected on thymocytes and lymph node cells from homozygous mice. Homozygous mutant mice also show a Class II restricted deficit in helper T-cell activity and other T-cell responses. This mutant mouse strain may be useful in studies of T cell development, susceptibility to viral infection and inflammation.

Donating Investigator

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

READ MORE +

GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
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<tbody>
<tr>
<td>Contact Technical Support</td>
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<td>(2018-07-27 00:00:00)</td>
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**RESEARCH APPLICATIONS**

Immunology, Inflammation and Autoimmunity Research
Research Tools
Virology Research

**BASE PRICE**
Starting at:

$137.51 Domestic price for female 3-week

**Details**

**Detailed Description**
Mice homozygous for the C4\textsuperscript{tm1Mak} targeted mutation have a significant block in CD4\textsuperscript{+} T-cell development; 90% of their circulating T-cells are CD8\textsuperscript{+}. Cell surface expression of CD4 protein is not detected on thymocytes and lymph node cells from homozygous mice. Homozygous mutant mice also show a Class II restricted deficit in helper T-cell activity and other T-cell responses. This mutant mouse strain may be useful in studies of T cell development, susceptibility to viral infection and inflammation.

**Development**

**Control Suggestions**

**Selected References**

**Genetics**

**C4\textsuperscript{tm1Mak}**

**Disease/Phenotype**

**Disease Terms**
Genotyping Protocols
Separated MCA: Nn\textsuperscript{CR/CJ}\textsuperscript{C57BL/6}\textsuperscript{J}
Standard PCR: Generic Cd4
Genotyping resources and troubleshooting

Dietary Information
LabDiet\textsuperscript{®} 5K52 formulation (6% fat)

Breeding Considerations
This strain is a good breeder.
When maintaining a live colony, these mice can be bred as homozygotes. Expected coat color from breeding is black.

Additional Breeding and Husbandry Support

Mating System
Homozygote x Homozygote

Appearance
black
Related Genotype: a/a

Citation

Animal Health Reports
Materials and Methods section.
Facility Barrier Level Descriptions

Pricing & Availability
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Domestic
International
Pricing effective for USA, Canada and Mexico shipping destinations

Live Mouse
AGE | SEX | GENOTYPE | PRICE

Im1Mak
<table>
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<tr>
<th>Weeks</th>
<th>SEX</th>
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<td>4 weeks</td>
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<td>$137.51</td>
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