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.

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**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

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**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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<table>
<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
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<tbody>
<tr>
<td>Targeted (Null/Knockout)</td>
<td>Cd4</td>
<td>CD4 antigen</td>
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</table>

**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 Cd4^{tm1Mak} targeted mutation have a significant block in CD4^{+} T-cell development; 90% of their circulating T-cells are CD8^{+}. 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**

**Cd4^{tm1Mak}**

**Disease/Phenotype**

**Disease Terms**
Genotyping Protocols
Separated MCA: N°\textsuperscript{11}C57BL/6J
Standard PCR: Generic Cd4
Genotyping resources and troubleshooting

Dietary Information
LabDiet® 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.

Mating System
Homozygote x Homozygote

Appearance
black
Related Genotype: a/a

Citation
When using the CD4 KO mouse strain in a publication, please cite the originating article(s) and include JAX stock #002663 in your Materials and Methods section.

Animal Health Reports
AX29 (Maximum)

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

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<th>AGE</th>
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