B6.129S2-Cd4<sup>tm1Mak</sup>/J

Stock No: 002663 | CD4 KO

Available Now

PLACE ORDER

Sized to accommodate orders of up to 10 or more with age range. Ask Customer Service for details.
Also Known As: CD4 KO
Mice homozygous for the Cd4<sup>tm1Mak</sup> targeted mutation have a significant block in CD4<sup>+</sup> 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

GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
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**Cd4<sup>tm1Mak</sup>**

<table>
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<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
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<tr>
<td>Targeted (Null/Knockout)</td>
<td>Cd4</td>
<td>CD4 antigen</td>
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RESEARCH APPLICATIONS

- Immunology, Inflammation and Autoimmunity Research
- Research Tools
- Virology Research
BASE PRICE
Starting at:
$144.39 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

Research Areas By Genotype

Mammalian Phenotype Terms by Genotype

References

Technical Support

CONTACT TECHNICAL SUPPORT
Genotyping Protocols
Separated MCA: Nt
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.

Additional Breeding and Husbandry Support

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
Facility Barrier Level Descriptions
AX29 (Maximum)

Pricing & Availability

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By Allele

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By Collection

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