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

**Stock No:** 002663 | CD4 KO

- **Congenic, Targeted Mutation**

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**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

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Details

Detailed Description
Mice homozygous for the C4^{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

Genetics

Disease/Phenotype

Disease Terms
Genotyping Protocols
Separated MCA: Nn\textsuperscript{C57BL/6j}
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.

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.

Facility Barrier Level Descriptions

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

Live Mouse

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Im1Mak
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