

B6.129S2-Cd4^{tm1Mak}/J

Stock No: **002663** | CD4 KO

 Congenic, Targeted Mutation

Sized to accommodate orders of up to 10 or more with age range. Ask 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

R E A D M O R E +

GENETIC OVERVIEW

Genetic Background

Generation

[Contact Technical Support](#)
(2018-07-27 00:00:00)

Cd4^{tm1Mak}

Alele Type

Gene Symbol

Gene Name

Targeted (Null/Knockout)

Cd4

CD4 antigen

V I E W G E N E T I C S

RESEARCH APPLICATIONS

Immunology, Inflammation and Autoimmunity Research
Research Tools
Virology Research

V I E W A L L R E S E A R C H A P P L I C A T I O N S

BASE PRICE

Starting at:

\$144.39 Domestic price for female 3-week

V I E W P R I C E L I S T

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 Phenotype

[+](#) Mammalian Phenotype Terms by Genotype

[+](#) References

[-](#) Technical Support

C O N T A C T T E C H N I C A L S U P P O R T

Genotyping Protocols

Probe:[Generic Cd4 Probe-alternate3](#)

[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 \(Maximum\)](#)

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Domestic **International**

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Live Mouse			
AGE	SEX	GENOTYPE	PRICE
3 weeks	Female	Homozygous for Cd4 ^{tm1Mak}	\$144.39
	Male	Homozygous for Cd4 ^{tm1Mak}	\$147.14
4 weeks	Female	Homozygous for Cd4 ^{tm1Mak}	\$144.39
	Male	Homozygous for Cd4 ^{tm1Mak}	\$147.14
5 weeks	Female	Homozygous for Cd4 ^{tm1Mak}	\$144.39
	Male	Homozygous for Cd4 ^{tm1Mak}	\$147.14
6 weeks	Female	Homozygous for Cd4 ^{tm1Mak}	\$149.54
	Male	Homozygous for Cd4 ^{tm1Mak}	\$152.29
7 weeks	Female	Homozygous for Cd4 ^{tm1Mak}	\$154.69
	Male	Homozygous for Cd4 ^{tm1Mak}	\$157.44
8 weeks	Female	Homozygous for Cd4 ^{tm1Mak}	\$159.84
	Male	Homozygous for Cd4 ^{tm1Mak}	\$162.59

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Phone: 207-288-6470

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