



N O D . C B P1r7k-d & J

Stock No: 001303 | NOD scid

Spontaneous Mutation



READILY AVAILABLE

P L A C E O R D E R

Readily available in any quantity needed.

Overview





Also Known As: NOD SCID, NOD scid

Mice homozygous for the severe combined immune deficiency spontaneous mutation *Prkdc*^{scid}, commonly referred to as *scid*, are characterized by an absence of functional T cells and B cells, lymphopenia, hypogammaglobulinemia, and a normal hematopoietic microenvironment. *Prkdc*^{scid} mice accept allogeneic and xenogeneic grafts making them an ideal model for cell transfer experiments. In general, *Prkdc*^{scid} leakiness is low on the NOD/ShiLtSz genetic background.

READ MORE +

GENETIC OVERVIEW

Genetic Background

Generation

[Contact Technical Support](#)
(2019-05-01 00:00:00)

*Hc*⁰

Allele Type

Gene Symbol

Gene Name

Spontaneous

Hc

hemolytic complement

Prkdc^{scid}

Allele Type

Gene Symbol

Gene Name

Spontaneous

Prkdc

protein kinase, DNA activated, catalytic polypeptide

VIEW GENETICS

RESEARCH APPLICATIONS

Cancer Research

Research Tools

Diabetes and Obesity Research

Immunology, Inflammation and Autoimmunity Research

VIEW ALL RESEARCH APPLICATIONS

BASE PRICE

Starting at:

\$105.77 Domestic price for male 3-week

VIEW PRICE LIST

Details

Detailed Description

Mice homozygous for the severe combined immune deficiency spontaneous mutation (*Prkdc*^{*scid*}, commonly referred to as *scid*) are characterized by an absence of functional T cells and B cells, lymphopenia, hypogammaglobulinemia, and a normal hematopoietic microenvironment. Normal antigen-presenting cell, myeloid, and NK cell functions are strain dependent. *scid* mice carry a DNA repair defect and a defect in the rearrangement of genes that code for antigen-specific receptors on lymphocytes. Most homozygotes have no detectable IgM, IgG1, IgG2a, IgG2b, IgG3, or IgA. Thymus, lymph nodes, and splenic follicles are virtually devoid of lymphocytes. *scid* mice accept allogeneic and xenogeneic grafts making them an ideal model for cell transfer experiments. Some *scid* mice will spontaneously develop partial immune reactivity. *scid* mice that have serum Ig levels greater than 1 ug/ml are considered "leaky." *scid* leakiness is highly strain dependent, increases with age, and is higher in mice housed under non-SPF conditions. In general, *scid* leakiness is high on the C57BL/6J and BALB/cBy genetic backgrounds, low on the C3H/HeJ background, and even lower on the NOD/ShiLtSz background. NOD/ShiLtSz-*Prkdc*^{*scid*} mice are both insulinitis- and diabetes-free throughout life and serve as a diabetes-free control for comparison to NOD/ShiLtJ mice (Stock No. 001976). Thymic lymphomas occur with high frequency, however, and life span typically is limited to only 8.5 months under specific pathogen-free conditions. In addition to being an excellent host for xenografts, NOD.CB17-*Prkdc*^{*scid*}/J mice may be useful for delineation of the role of T cell subsets in autoimmune diabetes and also as a source for insulinitis-free islets.

[View Flow Cytometry Characterization Data for Immunodeficient JAX Strains](#)

Development

Control Suggestions

Selected References

Genetics

Hc⁰

Prkdc^{*scid*}

– Disease/Phenotype

+ Disease Terms

+ Research Areas By Genotype

+ Mammalian Phenotype Terms by Genotype

+ Phenotype Information

+ References

– Technical Support

C H A T O  F L I N E

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

End Point Analysis: [Prkdc^{scid}](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

[This strain is a good breeder.](#)

[Additional Breeding and Husbandry Support](#)

Mating System

Homozygote x Homozygote

Appearance

albino

Related Genotype: *A/A Tyr^c/Tyr^c*

Citation

When using the NOD^{scid} mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #001303 in your Materials and Methods section.

[Facility Barrier Level Descriptions](#)

 [EM02 \(Maximum\)](#)

 [RB04 \(Maximum\)](#)

– Pricing & Availability



Readily
Available

Readily available in any quantity needed.

Domestic **International**

Pricing effective for USA, Canada and Mexico shipping destinations

Live Mouse

AGE	SEX	GENOTYPE	PRICE
3 weeks	Female	Homozygous for Prkdc ^{scid}	\$106.83
	Male	Homozygous for Prkdc ^{scid}	\$105.77
4 weeks	Female	Homozygous for Prkdc ^{scid}	\$106.83
	Male	Homozygous for Prkdc ^{scid}	\$105.77
5 weeks	Female	Homozygous for Prkdc ^{scid}	\$110.02
	Male	Homozygous for Prkdc ^{scid}	\$109.25
6 weeks	Female	Homozygous for Prkdc ^{scid}	\$112.10
	Male	Homozygous for Prkdc ^{scid}	\$111.03
7 weeks	Female	Homozygous for Prkdc ^{scid}	\$112.10
	Male	Homozygous for Prkdc ^{scid}	\$111.03
8 weeks	Female	Homozygous for Prkdc ^{scid}	\$112.10
	Male	Homozygous for Prkdc ^{scid}	\$111.03
9 weeks	Female	Homozygous for Prkdc ^{scid}	\$122.72
	Male	Homozygous for Prkdc ^{scid}	\$121.51
10 weeks	Female	Homozygous for Prkdc ^{scid}	\$129.35
	Male	Homozygous for Prkdc ^{scid}	\$128.07
11 weeks	Female	Homozygous for Prkdc ^{scid}	\$133.61
	Male	Homozygous for Prkdc ^{scid}	\$132.32
12 weeks	Female	Homozygous for Prkdc ^{scid}	\$137.52
	Male	Homozygous for Prkdc ^{scid}	\$136.24

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Terms of Use

[General Terms and Conditions](#)

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