

B6.NZB-(D1Mit47-D1Mit209)/BkotJ

Stock No: **007716**

 Congenic

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develop fatal nephritis. This strain may be useful in dissecting the genetics of systemic lupus erythematosus.

Donating Investigator

Dr. Brian Kotzin, Amgen Inc.

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GENETIC OVERVIEW

Genetic Background

000664 C57BL/6J

Generation

Nba10^{NZB}

Alele Type

QTL

Gene Symbol

Nba10

Gene Name

New Zealand Black autoimmunity 10

Marker(s)

Marker Symbol

D1Mit47

Marker Name

DNA segment, Chr 1, Massachusetts Institute of Technology 47

D1Mit209

DNA segment, Chr 1, Massachusetts Institute of Technology 209

VIEW GENETICS

RESEARCH APPLICATIONS

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BASE PRICE

Starting at:

\$2,854.50 Domestic price Cryo Recovery

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Details

Important Note

This C57BL/6 strain is homozygous for the age related hearing loss mutation *Cdh23^{ahl}*, which on this background causes progressive hearing loss with onset after 10 months of age.

Detailed Description

Mice homozygous for the NZB/BINJ-derived lupus susceptibility QTL (*Nba2*) on the C57BL/6 background develop elevated serum IgG antinuclear antibodies, a two-fold increase in the number of spleen cells (by 10 weeks of age), an increase in the absolute number of B and T cells, early B cell activation, increased levels of IgM, a two-fold increase in activated (CD69⁺) B cells and a two fold increase in FAS⁺ B cells. Although approximately 10% of females older than 10 months of age develop high levels of proteinuria, the subsequent nephritis does not result in death. When crossed with NZW/LacJ mice, 95% of F1 hybrid females develop elevated autoantibodies, severe proteinuria and fatal nephritis. This strain may be useful in dissecting the genetics of systemic lupus erythematosus.

Development

Control Suggestions

Selected References

Genetics

Nba10^{NZB}

D1Mit47

[+ D1Mit209](#)

[- Disease/Phenotype](#)

[+ Disease Terms](#)

[+ Research Areas By Phenotype](#)

[+ Mammalian Phenotype Terms by Genotype](#)

[+ References](#)

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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

[Genotyping resources and troubleshooting](#)

Appearance

black

Related Genotype: *a/a*

Citation

When using the B6.NZB-(*D1Mit47-D1Mit209*)/BkotJ mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #007716 in your Materials and Methods section.

Animal Health Reports

[Facility Barrier Level Descriptions](#)

Production of mice from cryopreserved embryos or sperm occurs in a maximum barrier room, [G200](#)

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Domestic International

Pricing effective for USA, Canada and Mexico shipping destinations

CRYORECOVERY - DOMESTIC PRICING

SERVICE/PRODUCT	DESCRIPTION	PRICE
Cryo Recovery	Homozygous, 1 pair minimum	\$2,854.50

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo	B6.NZB-(D1Mit47-D1Mit209)/BkotJ Frozen Embryos	\$2595.00
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Terms are granted by individual review and stated on the customer invoice(s) and account statement. These transactions are payable in U.S. currency within the granted terms. Payment for services, products, shipping containers, and shipping costs that are rendered are expected within the payment terms indicated on the invoice or stated by contract. Invoices and account balances in arrears of stated terms may result in The Jackson Laboratory pursuing collection activities including but not limited to outside agencies and court filings.

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The Jackson Laboratory has rigorous genetic quality control and mutant gene genotyping programs to ensure the genetic background of JAX® Mice strains as well as the genotypes of strains with identified molecular mutations. JAX® Mice strains are only made available to researchers after meeting our standards. However, the phenotype of each strain may not be fully characterized and/or captured in the strain data sheets. **Therefore, we cannot guarantee a strain's phenotype will meet all expectations.** To ensure that JAX® Mice will meet the needs of individual research projects or when requesting a strain that is new to your research, we suggest ordering and performing tests on a small number of mice to determine suitability for your particular project. We do not guarantee [breeding performance](#) and therefore suggest that investigators order more than one breeding pair to avoid delays in their research.

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ADDITIONAL USE RESTRICTIONS APPLY

[Use of MICE by companies or for-profit entities requires a license prior to shipping.](#)

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