NZB/BlNJ mice display a number of autoimmune abnormalities including hemolytic anemia, elevated levels of immunoglobulin, anti-DNA antibodies, anti-thymocyte antibodies, and circulating immune complexes causing glomerulonephritis. F1 hybrids of NZB/BlNJ and NZW/LacJ (NZBWF1/J, Stock No. 100008) are widely used as a model for autoimmune disease resembling human systemic lupus erythematosus. NZB/BlNJ mice, fed an atherogenic diet, fail to develop atherosclerotic aortic lesions in contrast to several highly susceptible strains of mice.
Details

**Detailed Description**

NZB/BlNJ mice display a number of autoimmune abnormalities including hemolytic anemia, elevated levels of immunoglobulin, anti-DNA antibodies, anti-thymocyte antibodies, and circulating immune complexes causing glomerulonephritis. F1 hybrids of NZB/BlNJ and NZW/LacJ (NZBWF1/J, Stock No. 100008) are widely used as a model for autoimmune disease resembling human systemic lupus erythematosus. NZB/BlNJ mice, fed an atherogenic diet (1.25% cholesterol, 0.5% cholic acid and 15% fat), fail to develop atherosclerotic aortic lesions in contrast to several highly susceptible strains of mice (e.g. C57BL/6J, Stock No. 000664; C57L/J, Stock No. 000668, C57BR/cdJ, Stock No. 000667, and SM/J, Stock No. 000687).

Development

Selected References

Genetics

**Bfsp2**

**Il3ra**
- *Pctp*<sup>R120H</sup>
- *Hc<sup>0</sup>*
- *Mx<sup>1<sup>s<sup>†</sup></sup>*
- *Ahr<sup>d</sup>*
- *Mir16-1<sup>m<sup>1</sup></sup>*
- *Cox7a2l<sup>l</sup>*
- *mt-Tr<sup>m<sup>1</sup></sup>*

**Disease/Phenotype**

**Disease Terms**

**Research Areas By Phenotype**

**Mammalian Phenotype Terms by Genotype**

**Phenotype Information**

**References**

**Technical Support**

**Genotyping Protocols**

Genotyping resources and troubleshooting

**Dietary Information**

LabDiet® 5K52 formulation (6% fat)

**Breeding Considerations**

This strain is a challenging breeder.

**Additional Breeding and Husbandry Support**

**Mating System**

Sibling x Sibling
Appearance
black
Related Genotype: a/a

Citation
When using the NZB mouse strain in a publication, please include JAX stock #000684 in your Materials and Methods section.

Animal Health Reports
Facility Barrier Level Descriptions

MP16 (Standard)

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### Pricing & Availability

Sized to accommodate orders of up to 10 or more with age range. Ask Customer Service for details.

#### Live Mouse

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Phone: 207-288-6470
Email: TechTran@jax.org

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All Related Strains