Overview

Also Known As: NZB/W

Mice of this hybrid cross develop an autoimmune disease resembling human systemic lupus erythematosus. Autoimmunity is characterized by high levels of antinuclear antibodies, hemolytic anemia, proteinuria, and progressive immune complex glomerulonephritis. NZBWF1/J mice have been used as a model for autoimmune disease since the early 1960s elucidating not only
the complex immunobiological responses and mechanisms but also the genetic basis for the complex multifactorial disease.

Our preclinical efficacy testing services offer scientific expertise and an array of target-based and phenotype-based outcome measures, both in vivo and at endpoint, for flexible study designs and assay development in mouse models of Lupus. See our full service platform.

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## GENETIC OVERVIEW

### Genetic Background

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### Generation

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## RESEARCH APPLICATIONS

Immunology, Inflammation and Autoimmunity Research

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## BASE PRICE

**Starting at:**

$81.51 Domestic price for female 3-week

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## Details

### Detailed Description

Systemic lupus erythematosus (SLE), is a chronic, inflammatory, autoimmune disease of unknown origin. There is strong evidence supporting the role of genetics in determining susceptibility and resistance to the disease. NZBWF1/J develop an autoimmune disease resembling human systemic lupus erythematosus. Autoimmunity is characterized by high levels of antinuclear antibodies, hemolytic anemia, proteinuria, and progressive immune complex glomerulonephritis. The incidence and severity of symptoms is more pronounced in females. The average lifespan for NZBWF1 is 245 days for females and 406 days for males. NZBWF1/J mice have been used as a model for autoimmune disease since the early 1960s elucidating not only the complex immunobiological responses and mechanisms but also the genetic basis for the complex multifactorial disease.

### Development

### Selected References
Genetics

Currently there are no related genes or alleles for this strain.

Disease/Phenotype

Disease Terms

Research Areas By Genotype

Mammalian Phenotype Terms by Genotype

Phenotype Information

References

Technical Support

Genotyping Protocols

Genotyping resources and troubleshooting

Hybrid mice are produced from breeding two different inbred strains together (F1) or the breeding of hybrids together (F2); no genotyping required.

Dietary Information

LabDiet® 5K52 formulation (6% fat)

Breeding Considerations

This strain is a good breeder.

Additional Breeding and Husbandry Support

Appearance

agouti

Related Genotype: A/a Tyrp1^{b}/+ p Tyr^{p}/+ +

Citation

When using the NZB/W mouse strain in a publication, please cite the originating article(s) and include JAX stock #100008 in your Materials and Methods section.

Animal Health Reports

Facility Barrier Level Descriptions

MP16 (Standard)

Pricing & Availability

Sized to accommodate orders of up to 100 or more. Ask Customer Service for details.
Live Mouse

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<th>SEX</th>
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Pricing effective for USA, Canada and Mexico shipping destinations

Available
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Email: TechTran@jax.org

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Related Strains

All

By Allele

By Gene

By Collection

All Related Strains
Leading the search for TOMORROW'S CURES