Also Known As: B6-lymphoproliferation, B6 lpr

Mice homozygous for the lymphoproliferation spontaneous mutation (Fas\textsuperscript{lrp}) show systemic autoimmunity, massive lymphadenopathy associated with proliferation of aberrant T cells, arthritis, and immune complex glomerulonephrosis. These mice serve as a model for systemic lupus erythematosus-like autoimmune syndromes.
RESEARCH APPLICATIONS

Immunology, Inflammation and Autoimmunity Research
Apoptosis Research
Cancer Research
Mouse/Human Gene Homologs

BASE PRICE
Starting at:
$126.58 Domestic price for female 3-week

Details

Detailed Description

Mice homozygous for the lymphoproliferation spontaneous mutation (Fas
lpr
) show systemic autoimmunity, massive lymphadenopathy associated with proliferation of aberrant T cells, arthritis, and immune complex glomerulonephrosis. Onset and severity of symptoms associated with the Fas
lpr
allele is strain-dependent. For example, lymphoproliferation varies greatly with congenic strain C57BL/6J-Fas
lpr
/Fas
lpr
at a 24 fold increase over control lymph node weight, MRL/Mp-Fas
lpr
/Fas
lpr
at 75 fold and congenic strain C3H/HeJ-Fas
lpr
/Fas
lpr
highest at 116 fold increase over control lymph node weight (Morse et al 1985). Variance in renal pathology ranks from extensive in MRL/Mp-Fas
lpr
/Fas
lpr
at 4 to 7 months to negligible at 14 to 16 months in mice with C57BL/6J and C3H/HeJ backgrounds and homozygous for Fas
lpr
(Kelley and Roths 1985). Spontaneous production of anti-dsDNA autoantibodies is likewise affected with percentage binding of radiolabeled dsDNA in Fas
lpr
/Fas
lpr
mice varying from 5 percent on C57BL/6J to 26 percent on C3H/HeJ to as high as 49 percent on MRL/Mp (Izui et al 1984). Female MRL/Mp-Fas
lpr
mice die at an average age of 17 weeks of age and males at 22 weeks. This compares to between 42 and 52 weeks in females on the C57BL/6J or C3H/HeJ background (Roths 1987). This mouse is a model for systemic lupus erythematosus-like autoimmune syndromes.

In an attempt to offer alleles on well-characterized or multiple genetic backgrounds, alleles are frequently moved to a genetic background different from that on which an allele was first characterized. This is the case for the strain above. It should be noted that the phenotype could vary from that originally described. We will modify the strain description if necessary as published results become available.

Control Suggestions

Selected References


**Genetics**

*Fas<sup>lpr</sup>*

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**Disease/Phenotype**

**Disease Terms**

**Research Areas By Phenotype**

**Mammalian Phenotype Terms by Genotype**

**References**

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**Technical Support**

**Genotyping Protocols**
Standard PCR: Fas
Standard PCR: Fas MCA
Genotyping resources and troubleshooting

**Breeding Considerations**

*This strain is a good breeder.*

**Additional Breeding and Husbandry Support**

**Mating System**
Homozygote x Homozygote

**Appearance**
black

**Related Genotype:** a/a

**Citation**

When using the B6 lpr mouse strain in a publication, please cite the originating article(s) and include JAX stock #000482 in your Materials and Methods section.

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**Animal Health Reports**

**Facility Barrier Level Descriptions**

* AX4 (Standard)*
Pricing & Availability

Available Now

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

Domestic

Pricing effective for USA, Canada and Mexico shipping destinations

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### Related Strains

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All Related Strains