B6.Cg-Bcl2a1a tm1Prys/Mmjax

MMRRC Stock No: 37468-JAX | A1-a-

 également  Congenic, Targeted Mutation

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Overview

Also Known As: A1-a-
A1-a K0 mice may be useful for studying apoptosis regulation during acute inflammation.

Donating Investigator

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RESEARCH APPLICATIONS
Hematological Research
Immunology, Inflammation and Autoimmunity Research

Details

Detailed Description
A1-a KO mice have a neo<sup>R</sup> cassette replacing exon 1 of the Bcl2a1a gene, encoding the Bcl2- (B cell leukemia/lymphoma 2)-related protein A1-a. In homozygotes, expression of A1-a is abolished, while expression of the alternative A1 isoforms (A1-b, A1-d) is intact. A1-a is an anti-apoptotic member of the Bcl-2 family that is up-regulated in inflammatory myeloid cells. Homozygotes are viable and fertile. When infected intraperitoneally with Toxoplasma gondii these mice exhibit an attenuation of inflammation, they show no differences in peritoneal parasite load. These mice also survive one day longer than WT littermates after infection.

Development

Control Suggestions

Selected References

Genetics

Bcl2a1a<sup>tm1Prys</sup>

Disease/Phenotype

Disease Terms

Research Areas By Genotype

Mammalian Phenotype Terms by Genotype

References
Genotyping Protocols
Standard PCR: Bcl2a1<sup>tmPrsy</sup> alternate 1
Genotyping resources and troubleshooting

Breeding Considerations
When maintaining a live colony, homozygous mice may be bred together.
Additional Breeding and Husbandry Support

Citation
When using the A1 agarose mouse strain in a publication, please cite the originating article(s) and include MMRRC stock #37468 in your

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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