C57BL/KaLawRij-Sharpin^{spdm}/RijSunJ

Stock No: 007599

Coisogenic, Spontaneous Mutation

AVAILABLE FOR REGISTERING INTEREST

REGISTER INTEREST

Please contact Customer Service for more information

Overview

Distribution on hold due to replenishing of cryopreserved stocks.

Mice homozygous for this spontaneous mutation develop a severe, chronic, inflammatory skin disease beginning at 3-5 weeks of age. This mutant mouse strain may be useful in studies related to eosinophilic dermatitis, inflammation and secondary lymphoid organ development.
GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
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Shaprin<sup>cpdm</sup>

<table>
<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
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<tbody>
<tr>
<td>Spontaneous</td>
<td>Sharpin</td>
<td>SHANK-associated RH domain interacting protein</td>
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RESEARCH APPLICATIONS

- Immunology, Inflammation and Autoimmunity Research
- Dermatology Research

Details

Detailed Description

Mice homozygous for this spontaneous mutation develop a severe, chronic, inflammatory skin disease beginning at 3-5 weeks of age. Mice appear runted and life span is shortened. In addition to dermatitis, homozygotes exhibit multi-organ inflammation with eosinophilia, defective TH1 cytokine production, splenomegaly, absent Peyer's patches (adult), diminished serum immunoglobulins, and an absence of B cell follicles, follicular dendritic cells, and germinal centers in secondary lymph organs. This mutant mouse strain may be useful in studies related to eosinophilic dermatitis, inflammation, and secondary lymphoid organ development.

Development

Control Suggestions

Selected References

Genetics

| Shaprin<sup>cpdm</sup> |

Disease/Phenotype

Disease Terms

Research Areas By Genotype
Mammalian Phenotype Terms by Genotype

References

Technical Support

CONTACT TECHNICAL SUPPORT

Genotyping Protocols
Pyrosequencing: Sharpin\textsuperscript{cpdm}
End Point Analysis: Sharpin\textsuperscript{cpdm}-EP
Genotyping resources and troubleshooting

Appearance
black
Related Genotype: a/a

Citation
When using the C57BL/KaLawRij-Sharpin\textsuperscript{cpdm}/RijSunJ mouse strain in a publication, please cite the originating article(s) and include JAX stock #007599 in your Materials and Methods section.

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Related Strains

- All
- By Allele
- By Gene
- By Collection

All Related Strains