C57BL/KaLawRij-Sharpin<sub>spdm</sub>/RijSunJ

**Stock No:** 007599

- Coisogenic, Spontaneous Mutation

**AVAILABLE FOR REGISTERING INTEREST**

**REGISTER INTEREST**

Please contact Customer Service for more information

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**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>
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<tr>
<th>Genetic Background</th>
<th>Generation</th>
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**Sharpin<sup>cpdm</sup>**

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<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**

**Sharpin<sup>cpdm</sup>**

**Disease/Phenotype**

**Disease Terms**

**Research Areas By Genotype**
Mammalian Phenotype Terms by Genotype

References

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}/RijJ8 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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All Related Strains
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