

129S4/SvJae-Cd274^{tm2Shr} Pdc1lg2^{tm4Shr} /Mmjax

MMRRC Stock No: 32239-JAX

 Coisogenic, Targeted Mutation

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Cd274, which affects lymphocyte activation and may be useful in studies of T cell regulation, activation and tolerance.

Donating Investigator

Arlene H Sharpe, Harvard Medical School

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GENETIC OVERVIEW

Genetic Background

Generation

Cd274^{tm2Shr}

Alele Type

Targeted (Null/Knockout)

Gene Symbol

Cd274

Gene Name

CD274 antigen

Pdc1lg2^{tm4Shr}

Alele Type

Targeted (Null/Knockout)

Gene Symbol

Pdc1lg2

Gene Name

programmed cell death 1 ligand 2

VIEW GENETICS

RESEARCH APPLICATIONS

Immunology, Inflammation and Autoimmunity Research

VIEW ALL RESEARCH APPLICATIONS

Details

Detailed Description

Mice that are homozygous for both targeted alleles are viable, fertile, normal in size and do not display any gross physical or behavioral abnormalities. Mice exhibit defects in lymphocyte activation. This mutant mouse strain may be useful in studies of T cell regulation, activation and tolerance.

Development

Control Suggestions

Selected References

Genetics

Cd274^{tm2Shr}

Pdcd1lg2^{tm4Shr}

Disease/Phenotype

Disease Terms

Research Areas By Phenotype

Mammalian Phenotype Terms by Genotype

References

Technical Support

Genotyping Protocols

Separated PCR:[Pdcd1lg2alternate1](#)

Separated PCR:[Cd274](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

While maintaining a live colony, these mice may be bred as homozygous for both targeted alleles.

[Additional Breeding and Husbandry Support](#)

Citation

When using the 129S4/SvJae-*Cd274*^{tm2Shr} *Pdcd1lg2*^{tm4Shr} /Mmjax mouse strain in a publication, please [cite the originating article\(s\)](#) and include MMRRC stock #32239 in your Materials and Methods section.

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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LICENSING INFORMATION

Phone: 207-288-6470

Email: TechTran@jax.org

Related Strains

- All
- By Allele
- By Gene
- By Collection



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