Historically, the 129 inbred mice are known for the high incidence of spontaneous testicular teratomas, though the incidence differs between substrains. More recently, 129 mice are widely used in the production of targeted mutations due to the availability of multiple embryonic stem cell lines derived from them. 129P3/J is one of the parental substrains.
Details

Important Note
This strain is homozygous for Cdh23<sup>ahl</sup>, the age related hearing loss 1 mutation, which on this background results in progressive hearing loss with onset prior to three months of age.

Detailed Description
Historically, the 129 inbred mice are known for the high incidence of spontaneous testicular teratomas, though the incidence differs between substrains. (1-3% in 129 parental substrains; 30% in teratoma substrains.) More recently, 129 mice are widely used in the production of targeted mutations due to the availability of multiple embryonic stem cell lines derived from them. There is major genetic variation within the 129 "family", which has led to an update of the nomenclature and a division of the substrains into three major groups: parental substrains (129P), steel substrains (129S) and "teratoma" substrains (129T). Investigators using 129 substrains for targeted mutagenesis should be careful in the selection of the appropriate 129 substrain to match the embryonic stem cell line. For a complete history of the numerous 129 substrains, see Simpson et al. 1997.

Development

Selected References

Genetics

Rmc<sup>f</sup>

Disc<sup>1del</sup>
Genotyping Protocols
Genotyping resources and troubleshooting
Inbred mouse strains are maintained through sibling (sister x brother) matings; no genotyping required.

Dietary Information
LabDiet® 5K52 formulation (6% fat)

Breeding Considerations
This strain is a challenging breeder.
Appearance
pink-eyed, light-bellied, light chinchilla
Related Genotype: $A^{w}/A^{w}$ Oca2$^{p}$ Tyr$^{c-ch}$/Oca2$^{p}$ Tyr$^{c}$

pink-eyed, light-bellied, chinchilla
Related Genotype: $A^{w}/A^{w}$ Oca2$^{p}$ Tyr$^{c-ch}$/Oca2$^{p}$ Tyr$^{c}$

albino
Related Genotype: $A^{w}/A^{w}$ Oca2$^{p}$ Tyr$^{c}$/Oca2$^{p}$ Tyr$^{c}$

Citation
When using the 129P3/J mouse strain in a publication, please include JAX stock #000690 in your Materials and Methods section.

Animal Health Reports
Facility Barrier Level Descriptions

MP13 (Maximum)

Pricing & Availability

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

Domestic

Live Mouse

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Terms Of Use

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