

IFN $\alpha/\beta/\gamma$ R-/- (AG129) Mice



BIORESOURCES



Gene Name: Interferon alpha/beta/gamma receptor null (Type II Interferon)

Type of Mutation: Double knockout by embryonic stem cell electroporation

Background strain: 129S7/SvEvBrd

Colour: Agouti

Controls: 129S7/SvEvBrdBkl-Hprt^{b-m2} (S129)
Control animals are also available. The 129/SvEv mouse line we have available originates from the laboratory of Alan Bradley. They represent the congenic line from which the AB-1 ES cell line was derived. According to Simpson et al. (1997) this line is one of the Steel substrains and is a direct descendant of the 129/SvEv mouse from the Evans laboratory.

Genotype: Homozygous

Strain Description: Homozygotes exhibit increased susceptibility to viral infections. Responses to infection are similar to those seen in IFNAR knockouts (A129), although the lack of response is more profound for some viral agents (van den Broek et al., 1995).

Phenotype/Health: Homozygotes are viable, fertile and phenotypically normal

Genetic Typing: Genetic analysis is by PCR

Feed: Irradiated rat & mouse standard or expanded breeder diet

Accommodation: Maintained in flexible film isolators

Breeding programme: Inbred strain maintained via monogamous pairs or trios

General Breeding Performance – over a 12 month period

- Average litter size 6.5
- Average litter size weaned 6.1
- Production Index 1.1
- Percentage of pre-wean loss 2.6%

Health Status: All of our mice are isolator-raised, and we perform routine health monitoring in accordance with FELASA recommendations. Mice have a specific pathogen free (SPF) health status, and we can also offer mice with a specific opportunistic pathogen free (SOPF) health status as well. A list of the pathogens included in our routine microbiologic screening and our current health monitoring reports are available upon request.



All our mice are provided with nesting paper, aspen chew blocks and play tubes.

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References:

Simpson et al. (1997). Genetic variation among 129 sub strains and its importance for targeted mutagenesis in mice. *Nature Genetics*, Vol. 16, p.19-27

Müller et al. (1994). Functional Role of Type I and Type II Interferons in Antiviral Defense. *Science*, Vol. 264, p. 1918-1921