These Il17a knock-in/knock-out mutant mice express a codon improved Cre-Recombinase knocked in at the endogenous Il17a gene. This targeted mutation abolishes Il17a expression. These mice may be useful for fate mapping IL17A secretion during T helper cell activation.

Donating Investigator

Brigitta Stockinger, The Francis Crick Institute

Live mice available in varying quantities. Ask Customer Service for details.
Details

Detailed Description

These Il17a<sup>Cre</sup> knock-in/knock-out mutant mice possess a codon improved Cre-Recombinase (icre) and a polyadenylation signal (polyA) into exon 1, as well as a point mutation in exon 2 to disable the internal START codon, of the interleukin 17A (Il17a) gene. This targeted mutation abolishes Il17a expression. Homozygotes are viable, fertile, and normal in size. IL17A is a proinflammatory cytokine produced by T helper cells which recruits monocytes and neutrophils to sites of inflammation. When these mice are bred with mice containing loxP-flanked sequence, iCre-mediated recombination will result in deletion of the floxed sequences in the Il17a-expressing cells of the offspring. Breeding these mice to Gt(ROSA)26Sor<sup>tm1(EYFP)Cos</sup> reporter mice allows fluorescent labeling of cells expressing IL17A. These mice may be useful for fate mapping IL17A secretion during T helper cell activation.

Development

Expression Data

Control Suggestions

Selected References

Genetics

Il17a<sup>tm1.1(cre)Stck</sup>

Disease/Phenotype

Disease Terms

Research Areas By Phenotype
Genotyping Protocols
Separated PCR: Il17a
Separated PCR: Il17a
Genotyping resources and troubleshooting

Dietary Information
New Diet as of March 2015: Lab Diet® 5K0Q (6% fat)

Breeding Considerations
When maintaining a live colony, homozygous mice may be bred together.

Additional Breeding and Husbandry Support
Mating System
Homozygote x Homozygote

Citation
When using the Il17a<sup>cre</sup> mouse strain in a publication, please cite the originating article(s) and include JAX stock #016879 in your Materials and Methods section.

Animal Health Reports
Facility Barrier Level Descriptions

AX18 (Maximum)

Live mice available in varying quantities. Ask Customer Service for details.

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**Frozen Mouse Embryo**

STOCK Il17a<tm1.1(icre)Stck>/J

$2595.00

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