B6.Cg-Tg(Itgax-cre)1-1Reiz/J

Stock No: 008068 | Cd11c-Cre

Congenic, Transgenic

Also Known As: CD11cCreT, Cd11c-Cre

Mice harboring the Itgax-cre (Cd11c-Cre) BAC transgene express Cre recombinase under control of the integrin alpha X gene (Itgax or Cd11c) promoter/enhancer regions within the BAC transgene. These Cd11c-Cre transgenic mice are a Cre-lox tool for deletion of floxed sequences in CD8+, CD8- dendritic cells, tissue-derived dendritic cells from lymph nodes, lung and epidermis, as well as plasmacytoid dendritic cells. This strain may be useful for studying dendritic cell homeostasis and function.

Donating Investigator

Boris Reizis, Columbia University Medical Center

Genetic Background

<table>
<thead>
<tr>
<th>Generation</th>
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<tbody>
<tr>
<td>N12 x NS5F</td>
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Tg(Itgax-cre)1-1Reiz

Allele Type

Transgenic (Recombinase-expressing)

Developmental Biology Research
Research Tools
Hematological Research
Immunology, Inflammation and Autoimmunity Research
Details

Detailed Description

Mice hemizygous for the Igtax-cre (Cd11c-Cre) transgene are viable, fertile, normal in size and do not display any gross physical or behavioral abnormalities. These Cd11c-Cre transgenic mice express Cre recombinase under the control of the mouse integrin alpha X (Cd11c) promoter. Cre-mediated recombination is detected in more than 95% of conventional CD11c<sup>high</sup> dendritic cells both from lymphoid organs and from non-lymphoid tissues such as lung and epidermis, and in 50-80% of plasmacytoid dendritic cells. The dendritic cell compartment of transgenic mice is normal. Relatively low amounts of recombination are detected in lymphocytes (<10%), NK cells (12%), and myeloid cells (<1%). No increase of recombination frequency was observed in CD11c<sup>low</sup> - activated T cells. These Cd11c-cre transgenic mice (as well as CD11c-Cre-GFP transgenic mice (see Stock No. 007567)) are an effective tool for generating tissue-specific targeted mutants for studying dendritic cell homeostasis and function.

View cre expression characterization.

Development

Expression Data

Control Suggestions

Selected References

Genetics

Tg(Igtax-cre)1-1Reiz

Disease/Phenotype

Disease Terms

Research Areas By Genotype

Mammalian Phenotype Terms by Genotype

References
Technical Support

Genotyping Protocols
Standard PCR: Tg(ltgax-cre)
MELT: Tg(ltgax-cre)1-1Reiz
Genotyping resources and troubleshooting

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

Breeding Considerations
When maintaining a live colony, these mice can be bred as hemizygotes. The Donating Investigator has not attempted to make this strain homozygous.
Additional Breeding and Husbandry Support

Mating System
Noncarrier x Hemizygote
Hemizygote x Noncarrier

Citation
When using the Tg(ltgax-cre) mouse strain in a publication, please cite the originating article(s) and include JAX stock #008068 in your Materials and Methods section.

Facility Barrier Level Descriptions
- AX10 (Standard)

Pricing & Availability
3–6 week average lead time depending on quantity and age requests are not accepted

### Domestic International
Pricing effective for USA, Canada and Mexico shipping destinations

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<thead>
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<th>AGE</th>
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<th>PRICE</th>
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Breeder Pair

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