B6.129-Ctnnb1*tm2Kem*/KnwJ

Stock No: 004152 | B-catenin flox

Congenic, Targeted Mutation

Also Known As: B-catenin flox

When bred to different strains expressing Cre recombinase in various tissues, this strain may be useful in studies such as chondrocyte differentiation, cardiovascular disease, brain malformation and studies of craniofacial, lung, bone and tooth development.

Donating Investigator

Prof. Dr. Rolf Kemler, Max Planck Institute for Immunobiology

GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
</tr>
</thead>
<tbody>
<tr>
<td>N10F7-F12N2F15</td>
<td>(2018-04-04 00:00:00)</td>
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<table>
<thead>
<tr>
<th>Ctnnb1*tm2Kem</th>
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<tbody>
<tr>
<td>Allele Type</td>
</tr>
<tr>
<td>Targeted (Conditional ready (e.g. floxed), No functional change)</td>
</tr>
</tbody>
</table>

RESEARCH APPLICATIONS

Research Tools
Developmental Biology Research

VIEW ALL RESEARCH APPLICATIONS
Details

Detailed Description

These mice possess loxP sites located in introns 1 and 6 of the targeted gene. Mice that are homozygous for this floxed allele are viable, fertile, normal in size and do not display any gross physical or behavioral abnormalities.

When bred to a strain expressing Cre recombinase in chondrocytes (see Stock No. 003554 for example), this mutant mouse strain may be useful in studies of chondocyte differentiation.

When bred to a strain expressing Cre recombinase in heart (see Stock No. 005650 or 005657 for example), this mutant mouse strain may be useful in studies of cardiovascular disease.

When bred to a strain expressing Cre recombinase in midbrain/dorsal spinal cord (see Stock No. 007807 or 009107 for example), this mutant mouse strain may be useful in studies of brain malformation and craniofacial development.

When bred to a strain expressing Cre recombinase in the distal posterior region of the embryo (see Stock No. 005622 for example), this mutant mouse strain may be useful in studies of lung development.

When bred to a strain expressing Cre recombinase in palate (see Stock No. 009388 for example), this mutant mouse strain may be useful in studies of tooth development.

When bred to a strain expressing Cre recombinase in early limb bud mesenchyme and a subset of craniofacial mesenchyme (see Stock No. 005584 for example), this mutant mouse strain may be useful in studies of bone development.

When bred to mice carrying Tg(Krt1-15-cre/PGR)22Cot (Stock No. 005249), RU 486-induced Cre recombinase expression in the epithelial and hair follicle results in altered hair growth.

When bred to mice carrying Tg(KRT14-cre/ERT)20Efu (Stock No. 005107), tamoxifen-inducible Cre recombinase expression in the epidermis results in increased cell proliferation and increased numbers of mast cells.

Development

Control Suggestions

Selected References

Genetics

Ctnnb1^{ln2Kcm}

Disease/Phenotype
Genotyping Protocols
End Point Analysis: Ctnnb1\textsuperscript{tm2Kem}\textsuperscript{-alternate2}  
Standard PCR: Ctnnb1\textsuperscript{tm2Kem}  
Genotyping resources and troubleshooting

Dietary Information
LabDiet\textregistered 5K52 formulation (6% fat)

Breeding Considerations
This strain originated on a B6;129 background and has been backcrossed to C57BL/6J for at least ten generations before being made homozygous. Coat color expected from breeding: Black
Additional Breeding and Husbandry Support

Mating System
Homozygote x Homozygote

Citation
When using the B6;129\textsuperscript{flex} mouse strain in a publication, please cite the originating article(s) and include JAX stock #004152 in your Materials and Methods section.

Animal Health Reports

Pricing & Availability
2–4 week lead time for most orders depending on quantity and age range requested

Repository Live

<table>
<thead>
<tr>
<th>Live Mouse</th>
<th>PRICE</th>
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<tbody>
<tr>
<td>Approx 4-8 weeks</td>
<td>Female</td>
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| All
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| By Gene
| By Collection

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