B6.129S(Cg)-Ddit3<sup>tm2.1Dron</sup>/J

Stock No: 005530 | CHOP KO

Green Congenic Targeted Mutation

REPOSITORY LIVE

PLACE ORDER

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

Also Known As: CHOP KO

Mice that are homozygous for the targeted mutation have mouse embryonic fibroblasts and renal proximal tubular epithelial cells with decreased apoptosis in response to endoplasmic reticulum stress induced by the toxin, tunicamycin. This mutant mouse strain may be useful in studies of apoptosis and pathogenesis due to endoplasmic reticulum stress.

Donating Investigator

David Ron, NYU School of Medicine

READ MORE +

Genetic Background

N5+N3F3
(2018-04-17 00:00:00)

Ddit3<sup>tm2.1Dron</sup>

<table>
<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
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<tr>
<td>Targeted (Reporter, Null/Knockout)</td>
<td>Ddit3</td>
<td>DNA-damage inducible transcript 3</td>
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</table>

VIEW GENETICS

Apoptosis Research
Research Tools
Cell Biology Research

VIEW ALL RESEARCH APPLICATIONS
Details

Detailed Description

Mice that are homozygous for the targeted mutation are viable, fertile, normal in size and do not display any gross physical or behavioral abnormalities. No gene product (mRNA or protein) is detected by Northern or Western blot analysis of toxin challenged mouse embryonic fibroblasts (MEFs). MEFs and renal proximal tubular epithelial cells have decreased apoptosis in response to endoplasmic reticulum stress induced by the toxin, tunicamycin. Pancreatic islets cells are more resistant to nitric oxide induced apoptosis. MEFs exhibit a delayed onset of unfolded protein response (UPR) target gene expression when treated with tunicamycin. This mutant mouse strain may be useful in studies of apoptosis and pathogenesis due to endoplasmic reticulum stress. The Donating Investigator reports that lacZ activity is not detected.

Development

Control Suggestions

Selected References

Genetics

Ddit3<sup>tm2.1Bke</sup>

Disease/Phenotype

Disease Terms

Research Areas By Genotype

Mammalian Phenotype Terms by Genotype

References

Technical Support
Genotyping Protocols
Standard PCR: Ddit3^tm1Dron
Genotyping resources and troubleshooting

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

Mating System
Homozygote x Homozygote

Citation
When using the CHOP-KO mouse strain in a publication, please cite the originating article(s) and include JAX stock #005530 in your Materials and Methods section.

Animal Health Reports
AX11 (Maximum)

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

Repository Live

<table>
<thead>
<tr>
<th>Live Mouse</th>
<th>SEX</th>
<th>GENOTYPE</th>
<th>PRICE</th>
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<tr>
<td>Approx 4–8 weeks</td>
<td>Female</td>
<td>Homozygous for Ddit3^tm1Dron</td>
<td>$231.00</td>
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<tr>
<td></td>
<td>Male</td>
<td>Homozygous for Ddit3^tm1Dron</td>
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Related Products and Services

Frozen Mouse Embryo $2,595.00 per straw or vial

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