Foxo1.DBD - Mouse Strain RES1701

Mouse Information

Common Name: Foxo1.DBD
MGI Official Name: Foxo1tm1(DBD)Dac
Description: This line contains a DNA binding-deficient mutant of Foxo1. The mutation may be useful for assessing the contribution of DNA co-activation in the function of Foxo1.
Categories: None specified.

Genetic Alterations

1) RMCE Targeted Mutagenesis

Type of Allele: Cassette Acceptor
Targeted Gene: forkhead box O1 (Foxo1 - NCBI GeneID:56458)
Targeted Allele: targeted mutation 1 (Foxo1tm1LCA - MGI:1890077)
Description of Targeting Vector: Not provided
Targeting Vector Genbank File: pFoxo1.LCA.gb
Recombinase-Mediated Cassette Exchange Stage

Type of Allele: Gene Replacement
Exchanged Cassette Gene: Not provided.
Exchanged Cassette Allele Name: Foxo1DBD
Description of Exchange Vector: A loxed cassette acceptor allele for Foxo1 was generated using a targeting vector that contains a lox71 site, a puromycin (delta)thymidine kinase fusion gene driven by a mouse phosphoglycerol kinase (PGK) promoter, a neomycin resistant gene driven by the bacterial EM7 promoter (EM7neo), and a lox2272 site. A 4.999 kb region of the Foxo1 gene containing exon 1 was removed in the process of gene targeting.
Exchange Vector Genbank File: pFoxo1.DBD.gb
Citations: Not Available

Strain Information

Strain Type: Mixed
Chimera/Founder Genetic Background: 129S6/SvEvTac
Current Genetic Background: 93.75% C57BL6/J (date recorded: 04/23/2015)
Strain Description: 129S6-derived chimeric males were bred to C57BL6/J females to achieve germline transmission. All subsequent matings were to C57BL6/J for a total of 4 backcrosses.

Associated Images

Image 1
Description: Not provided
Reference: Not provided
### Repositories

**Magnuson Lab**

<table>
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<tr>
<th>Stock #</th>
<th>BSID 0062</th>
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**Availability Notes:** Sperm cryo vial KH, Straw KH, BSID 0062, 48 straws, frozen 9/2/09

### Contact Information

#### Preferred Contact

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### Associated Publications

No publications associated

### Comments

There are no comments for this entry.