CBA/CaHN-Btk/J

Stock No: 001011 | CBA/N

Inbred Strain

AVAILABLE NOW

PLACE ORDER

Sized to accommodate orders of up to 10 or more with age range. Ask Customer Service for details.

Overview
CBA/CaHN-\textit{Btk}^{xid}/J mice have a mutation in the Bruton's tyrosine kinase gene (\textit{Btk}), and are a model of human X-linked immunodeficiency. They have a B-lymphocyte-specific defect that results in an inability to launch an antibody response to thymus-independent type II antigens, although they do produce normal amounts of antibody in response to some protein antigens. They have low serum IgM and IgG3 and a reduced number of B-cells. Moreover, the B-cells that are present have a reduced surface IgM to IgD ratio, which suggests a disorder in B-cell maturation.
CBA/CaHN-Blk<sup>xid</sup>/J mice have a mutation in the Bruton's tyrosine kinase gene (Blk), and are a model of human X-linked immunodeficiency. They have a B-lymphocyte-specific defect that results in an inability to launch an antibody response to thymus-independent type II antigens, although they do produce normal amounts of antibody in response to some protein antigens. They have low serum IgM and IgG3 and a reduced number of B-cells. Moreover, the B-cells that are present have a reduced surface IgM to IgD ratio, which suggests a disorder in B-cell maturation.
Genotyping Protocols
Pyrosequencing: Btk<sup>xid</sup>
End Point Analysis: Btk<sup>xid</sup> End Point

Genotyping resources and troubleshooting
The Jackson Laboratory does not have a PCR genotyping assay for the Btk<sup>xid</sup> mutation. The point mutation is a C to T transition at point 219 (Rawlings DJ et al. Science 1993; 261(5119):358-61 [PMID: 8332901]).

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

Breeding Considerations
This strain is an exceptional breeder.

Additional Breeding and Husbandry Support

Mating System
Homozygote x Hemizygote

Appearance
agouti

Related Genotype: A/A

Citation
When using the CBA/N mouse strain in a publication, please include JAX stock #001011 in your Materials and Methods section.

Animal Health Reports

Facility Barrier Level Descriptions

MP13 (Maximum)

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### Pricing & Availability

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<table>
<thead>
<tr>
<th>AGE</th>
<th>SEX</th>
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<td>3 weeks</td>
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