CBA/CaHN-Btk<sup>kd</sup>/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. Call Customer Service for details.

Also Known As: CBA/N

CBA/CaHN-Btk<sup>kd</sup>/J mice have a mutation in the Bruton’s tyrosine kinase gene (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.

READ MORE +

GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
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<tbody>
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<td>Contact Technical Support</td>
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VIEW GENETICS
RESEARCH APPLICATIONS
Mouse/Human Gene Homologs
Research Tools
Immunology, Inflammation and Autoimmunity Research

BASE PRICE
Starting at:

$0.00 Domestic price for male 3-week

Details

Detailed Description

CBA/CaHN-Btk

x d /J mice have a mutation in the Bruton’s tyrosine kinase gene (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.

View Flow Cytometry Characterization Data for Immunodeficient JAX Strains

Control Suggestions

Selected References

Genetics

Btk

x d

Disease/Phenotype

Disease Terms

Research Areas By Genotype
Genotyping Protocols
Pyrosequencing: Btk^{ld}
End Point Analysis: Btk^{ld} End Point
Genotyping resources and troubleshooting
The Jackson Laboratory does not have a PCR genotyping assay for the Btk^{ld} 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
Animal Health Reports
When using the CBA/N mouse strain in a publication, please include JAX stock #001011 in your Materials and Methods section.

Facility Barrier Level Descriptions
MP13 (Maximum)

Pricing & Availability
Available Now
Sized to accommodate orders of up to 10 or more with age range. Call Customer Service for details.

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

Live Mouse

AGE SEX GENOTYPE PRICE

viv
<table>
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<th>3 weeks</th>
<th>SEX</th>
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<tr>
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<td>Homozygous for Btk&lt;sup&gt;xid&lt;/sup&gt;</td>
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<tr>
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Terms of Use

[General Terms and Conditions](#)

**Licensing Information**

Phone: 207-288-6470
Email: TechTran@jax.org

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Related Strains

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