Also Known As: CBA Jackson

This widely used general purpose strain is the only CBA substrain that carries the \textit{Pde6b}^{rd1} mutation, which causes blindness by wean age. Renal tubulointerstitial lesions have been observed in this strain at a high frequency. Some CBA/J mice spontaneously develop exocrine pancreatic insufficiency syndrome. Research includes immunology and inflammation, metabolism, hearing and cochlear function, infectious disease, and fetal development.
RESEARCH APPLICATIONS
Cardiovascular Research
Research Tools
Sensorineural Research
Immunology, Inflammation and Autoimmunity Research
Internal/Organ Research
Metabolism Research
Mouse/Human Gene Homologs

BASE PRICE
Starting at:
$28.08 Domestic price for male 3-week

Volume Pricing Available!
for select shipping destinations
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Important Note
This strain is homozygous for the retinal degeneration allele \( Pde6b^{rd1} \). See article "Genetic Background Effects: Can Your Mice See?", JAX® NOTES Spring 2002, No. 485.

Detailed Description
CBA/J inbred mice are widely used as a general purpose strain. CBA/J strain is the only CBA substrain that carries the \( Pde6b^{rd1} \) mutation, which causes blindness by wean age. CBA/J mice are not histocompatible with the CBA/CaJ (Stock No. 000654) substrain (Green and Kaufer, 1965).

The CBA/J inbred mouse strain is used to study granulomatous experimental autoimmune thyroiditis (G-EAT), are relatively resistant to diet-induced atherosclerosis (Paigen et al. 1990), and develop a mild hearing loss late in life, with most of the hearing loss occurring in the higher frequencies (Sweet et al. 1988). Renal tubulointerstitial lesions have been observed in this strain at a high frequency (Rudofsky 1978). Some CBA/J mice spontaneously develop exocrine pancreatic insufficiency syndrome (Eppig and Leiter 1977, Leiter et al. 1977).

Development
Genotyping Protocols
Separated PCR: GAL Panel
Standard PCR: Pde6b<sup>rd1</sup>
Probe: Pde6b<sup>rd1</sup>
Genotyping resources and troubleshooting
Inbred mouse strains are maintained through sibling (sister x brother) matings; no genotyping required.

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

This strain is a good breeder.
Older mice are prone to seizures.

Additional Breeding and Husbandry Support

Mating System
Sibling x Sibling

Appearance

agouti
Related Genotype: A/A

Citation

When using the CBA/J mouse strain in a publication, please include JAX stock #000656 in your Materials and Methods section.

Animal Health Reports

Facility Barrier Level Descriptions

- MP13 (Maximum)
- RB11 (Maximum)

Pricing & Availability

Readily available in any quantity needed.

Live Mouse

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<th>AGE</th>
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Volume Pricing Details

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**Volume Pricing Program**
Quantities: Volume pricing is automatically applied when a minimum quantity per strain for a shipment is reached.
Sexes: Sexes of the same strain may be combined to reach minimum quantity levels to receive the volume pricing.
Shipment: All shipping destinations qualify.

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