Overview

BALB/cByJ
Stock No: 001026

Inbred Strain

READILY AVAILABLE

PLACE ORDER

Sized to accommodate orders of up to 100 or more. Ask Customer Service for details.
Also Known As: BALB/c Bailey J, BALB Bailey, CBy, CByJ

Mice of this substrain of BALB/c, among other differences, have better reproductive performance and less aggression than mice of the BALB/cJ substrain (Stock No. 000651).
Important Note
This strain is homozygous for $Cdh23^{ahl}$, the age related hearing loss 1 mutation, which on this background results in progressive hearing loss with onset after 10 months of age.

Detailed Description
BALB/c mice are particularly well known for the production of plasmacytoma on injection with mineral oil, forming the basis for the production of monoclonal antibodies. Although not all BALB/c substrains have been examined for plasmacytoma induction, substrains derived from the Andervont (An) lineage (which includes BALB/cByJ) typically are susceptible, while those descended from BALB/cJ are resistant. Mammary tumor incidence is normally low, but infection with mammary tumor virus by fostering to MMTV$^+$ C3H mice dramatically increases tumor number and age of onset. BALB/c mice develop other cancers later in life, including reticular neoplasm, primary lung tumors, and renal tumors. Rare spontaneous myoepitheliomas arising from myoepithelial cells of various exocrine glands have been observed in both BALB/cJ and BALB/cByJ substrains. A deficiency of Acads (acyl-Coenzyme A dehydrogenase, short chain) leads to severe organic aciduria. BALB/cByJ develop a fatty liver upon fasting or dietary fat challenge and become hypoglycemic after an 18-hour fast. BALB/cByJ mice have the advantage of better reproductive performance and less aggression than mice of the BALB/cJ substrain.

Development

Selected References

Genetics

$Cdh23^{ahl}$

$Ah_{b-2}$

$If1$

$Acads^{del-J}$

$Hid$

$Mdmg1$

Disease/Phenotype

Disease Terms

Research Areas By Phenotype

Mammalian Phenotype Terms by Genotype

Phenotype Information
Genotyping Protocols
Sanger sequencing: H2 rs50413633

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.

Additional Breeding and Husbandry Support

Mating System
Sibling x Sibling

Appearance
albino

Related Genotype: A/A Typr1<sup>t</sup>/Typr1<sup>t</sup> Tyr<sup>c</sup>/Tyr<sup>c</sup>

Citation
When using the BALB/cByJ mouse strain in a publication, please include JAX stock #001026 in your Materials and Methods section.

Pricing & Availability

Sized to accommodate orders of up to 100 or more. Ask Customer Service for details.

Live Mouse

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### Related Products and Services

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Email: TechTran@jax.org
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All

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- By Gene
- By Collection

All Related Strains