BALB/cJ is a commonly used inbred. Key traits include a susceptibility to developing the demyelinating disease upon infection with Theiler's murine encephalomyelitis virus. The BALB/cJ substrain is susceptible to *Listeria*, all species of *Leishmania*, and several species of *Trypanosoma*, but is resistant to experimental allergic orchitis (EAO).

Also Known As: C, BALBc

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BALB/c mice are particularly well known for the production of plasmacytomas following 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 (see: Potter M, 1985). Mammary tumor incidence is normally low but infection with mammary tumor virus by fostering to MMTV<sup>C3H</sup> mice dramatically increases tumor number and age of onset. BALB/c mice develop other cancers later in life including reticular neoplasms, 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. This strain was found to be susceptible to infection by <i>Listeria monocytogenes</i>, with a 3 day median time to death in females (Cheers and McKenzie, 1978).

White et al. reported a variation in thioglycolate medium-induced peritoneal leukocyte recruitment in 4 analyzed strains. The response of total leukocyte recruitment, from greatest to least, was C57BL/6J>BALB/c>CD1>129X1/SvJ. Variations were also found in the timeline of response and cell types most impacted.

BALB/c mice immunized with PLP<sub>180-199</sub> develop an atypical form of experimental autoimmune encephalomyelitis (EAE) in which susceptibility is determined by location. In the spinal cord 60-70% mice develop pathological lesions and in the brain and cerebellum 100% of mice develop severe lesions.
Dorso-ventral vaginal septa is observed in some BALB/cJ females, and may contribute to non-productive females in this strain. (Cunliffe-Beamer T, *Lab Anim Sci*, 1976)

**Development**

**Selected References**

**Genetics**

- **Cd23ahl**
- **Mx1s1**
- **Micrln**
- **Cox7a2ls**
- **Hld**

**Disease/Phenotype**

**Disease Terms**

**Research Areas By Genotype**

**Mammalian Phenotype Terms by Genotype**

**Phenotype Information**

**References**

**Technical Support**

---

**Genotyping Protocols**

Separated PCR: **GAL Panel**

End Point Analysis: **H2d-EP**

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: $A/A \, Tyrp^{1b}/Tyrp^{1b} \, Tyr^{f}/Tyr^{f}$

Citation
When using the BALB/cJ mouse strain in a publication, please include JAX stock #000651 in your Materials and Methods section.

Animal Health Reports

Facility Barrier Level Descriptions

Pricing & Availability

Readily available in any quantity needed.

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<th>Live Mouse</th>
<th>SEX</th>
<th>GENOTYPE</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
This strain is available from some international Charles River (CR) breeding facilities in Japan and/or Europe. For more information, see the Worldwide Distributor List for JAX® Mice.

**Related Products and Services**

<table>
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<tr>
<th>Product</th>
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that JAX® Mice will meet the needs of individual research projects or when requesting a strain that is new to your research, we suggest ordering and performing tests on a small number of mice to determine suitability for your particular project.

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Terms of Use

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Questions About Terms Of Use

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

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