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).
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⁺ C3H 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 *Listeria monocytogenes*, 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 PLP₃₅-₁₉ 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)
Selected References

Genetics

- \textit{Cdh23}^{ahl}
- \textit{Mx1}^{st}
- \textit{Micr}^n
- \textit{Cox7a2}^{st}
- \textit{Hld}

Disease/Phenotype

- Disease Terms
- Research Areas By Phenotype
- Mammalian Phenotype Terms by Genotype
- Phenotype Information
- References

Technical Support

Genotyping Protocols

Separated PCR: GAL Panel
End Point Analysis: H2 rs50413633-Alt 1-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<sup>b</sup>/Tyrp<sup>b</sup> Tyr<sup>c</sup>/Tyr<sup>c</sup>

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

- MP16 (Standard)
- RB09 (Maximum)
- RB10 (Maximum)
- RB17 (High)
- EM03 (Maximum)
- MP13 (Maximum)
- RB11 (Maximum)
- AX5 (Standard)
- RB07 (Maximum)
- EM04 (Maximum)

Pricing & Availability
Readily Available in any quantity needed.

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

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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](https://example.com).

**Related Products and Services**

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Payment Terms and Conditions

Terms are granted by individual review and stated on the customer invoice(s) and account statement. These transactions are payable in U.S. currency within the granted terms. Payment for services, products, shipping containers, and shipping costs that are rendered are expected within the payment terms indicated on the invoice or stated by contract. Invoices and account balances in arrears of stated terms may result in The Jackson Laboratory pursuing collection activities including but not limited to outside agencies and court filings.

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Terms Of Use

Terms Of Use

General Terms and Conditions

Licensing Information

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

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All

By Allele

By Gene

By Collection

All Related Strains