

BALB/cJStock No: **000651** | BALBc **Inbred Strain**

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[PLACE ORDER](#)[Email](#)[Download PDF](#)[Help](#)**Also Known As:** C, BALBc, BALB, BALB/c

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).

[READ MORE +](#)**GENETIC OVERVIEW****Genetic Background****Generation**[Contact Technical Support](#)
(2018-07-27 00:00:00)[VIEW GENETICS](#)**RESEARCH APPLICATIONS**

Cardiovascular Research
Cancer Research
Research Tools
Neurobiology Research
Sensorineural Research
Immunology, Inflammation and Autoimmunity Research

V I E W A L L R E S E A R C H A P P L I C A T I O N

BASE PRICE

Starting at:

\$20.15 Domestic price for male 3-week

V I E W P R I C E L I S T

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Details

Detailed Description

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 PLP₁₈₀₋₁₉₉ 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](#)

[+ *Hld*](#)

[+ *Cdh23^{ahl}*](#)

[+ *Micr1ⁿ*](#)

[+ *Mx1^{s1}*](#)

[+ *Cox7a2^{lS}*](#)

[- Disease/Phenotype](#)

[+ Disease Terms](#)

[+ Research Areas By Phenotype](#)

[+ Mammalian Phenotype Terms by Genotype](#)

[+ Phenotype Information](#)

[+ References](#)

[- Technical Support](#)

C O N T A C T T E C H N I C A L S U P P O R T

Genotyping Protocols

Separated PCR: [GAL Panel](#)

[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 Tyrp1^b/Tyrp1^b Tyr^c/Tyr^c*

Citation

When using the BALBc 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 \(Maximum\)](#)

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LIVE MOUSE

AGE

SEX

GENOTYPE

PRICE

3 weeks

Female

Not Applicable

\$23.47

	Male	Not Applicable	\$20.15
	SEX		
4 weeks	Female	Not Applicable	\$24.11
	Male	Not Applicable	\$20.95
5 weeks	Female	Not Applicable	\$25.95
	Male	Not Applicable	\$23.71
6 weeks	Female	Not Applicable	\$26.47
	Male	Not Applicable	\$24.30
7 weeks	Female	Not Applicable	\$29.32
	Male	Not Applicable	\$27.56
8 weeks	Female	Not Applicable	\$29.63
	Male	Not Applicable	\$28.13
9 weeks	Female	Not Applicable	\$31.04
	Male	Not Applicable	\$28.94
10 weeks	Female	Not Applicable	\$35.84
	Male	Not Applicable	\$30.71
11 weeks	Female	Not Applicable	\$36.36
12 weeks	Female	Not Applicable	\$38.27
13 weeks	Female	Not Applicable	\$40.31
14 weeks	Female	Not Applicable	\$42.16
15 weeks	Female	Not Applicable	\$43.96

VOLUME PRICING DETAILS

QUANTITY	Volume Pricing
175	5% off
250	10% off

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

Mouse ES Cells	BALB/cJ-PRX-BALB/cJ #9 mES cells	\$995.00
Mouse ES Cells	BALB/cJ-line I mES cells	\$1095.00

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The Jackson Laboratory has rigorous genetic quality control and mutant gene genotyping programs to ensure the genetic background of JAX® Mice strains as well as the genotypes of strains with identified molecular mutations. JAX® Mice strains are only made available to researchers after meeting our standards. However, the phenotype of each strain may not be fully characterized and/or captured in the strain data sheets. **Therefore, we cannot guarantee a strain's phenotype will meet all expectations.** To ensure 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. We do not guarantee [breeding performance](#) and therefore suggest that investigators order more than one breeding pair to avoid delays in their research.

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LICENSING INFORMATION

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Email: TechTran@jax.org

Related Strains

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By Gene

By Collection



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