

B6.Cg-Birc3^{tm1Jda} /J
Stock No: **023316** | c-IAP2^{H570A}

 Congenic, Targeted Mutation

Typically mice are recovered in 10-14 weeks. Contact Customer Service to place an order or for more information.

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activity in B and T lymphocytes.

Donating Investigator

Jonathan D Ashwell, Nat Cancer Inst/Nat Inst Health NC/NIH

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GENETIC OVERVIEW

Genetic Background

Generation

Birc3^{tm1Jda}

Alele Type

Gene Symbol

Gene Name

Targeted (Not Applicable)

Birc3

baculoviral IAP repeat-containing 3

VIEW GENETICS

RESEARCH APPLICATIONS

Research Tools

Immunology, Inflammation and Autoimmunity Research

VIEW ALL RESEARCH APPLICATIONS

BASE PRICE

Starting at:

\$2,854.50 Domestic price Cryo Recovery

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

Details

Detailed Description

These *c-IAP2*^{H570A} mice contain the amino acid mutation H570A in exon 9 of the baculoviral IAP repeat-containing 2 (*Birc3*) gene. C-IAP2 (Cellular Inhibitor of Apoptosis 2) acts as an E3 ubiquitin-protein ligase which regulates non-canonical NF-kappa-B signaling, caspase activity, apoptosis, inflammatory signaling and immunity, mitogenic kinase signaling, cell proliferation, cell invasion, and metastasis. This H570A mutation is in the RING domain, inactivating the E3 ubiquitin-protein ligase activity. *c-IAP2*^{H570A} protein levels are increased due to lack of autoubiquitination and degradation and exert a dominant negative effect on c-IAP1 E3 activity. As a result, *c-IAP2*^{H570A} cells have constitutively active non-canonical NF-kappa-B resulting in high levels of p52 at rest. *c-IAP2*^{H570A} mice have enlarged gut associated lymphoid tissue (GALT), marginal zone B cell hyperplasia, increased B cell survival, and T cell-costimulation independence.

Development

Control Suggestions

Selected References

Genetics

Birc3^{tm1Jda}

Disease/Phenotype

Disease Terms

Research Areas By Phenotype

+ Mammalian Phenotype Terms by Genotype

+ 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

Sanger sequencing:[Birc3-SEQ](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

When maintaining a live colony, homozygous mice may be bred together.

[Additional Breeding and Husbandry Support](#)

Citation

When using the c-IAP2^{H570A} mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #023316 in your Materials and Methods section.

Animal Health Reports

[Facility Barrier Level Descriptions](#)

Production of mice from cryopreserved embryos or sperm occurs in a maximum barrier room, [G200](#)

- Pricing & Availability



Cryo
Recovery

Typically mice are recovered in 10-14 weeks. Contact Customer Service to place an order or for more information.

Domestic | International

Pricing effective for USA, Canada and Mexico shipping destinations

CRYORECOVERY - DOMESTIC PRICING

SERVICE/PRODUCT	DESCRIPTION	PRICE
Cryo Recovery	Heterozygous for Birc3<tm1Jda>	\$2,854.50

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo

B6.Cg-Birc3^{tm1Jda}/J Frozen Embryo

\$2595.00

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THE JACKSON LABORATORY'S GENOTYPE PROMISE

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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Q U E S T I O N S A B O U T T E R M S O F U S E

LICENSING INFORMATION

Phone: 207-288-6470

Email: TechTran@jax.org

Related Strains

All

By Allele

By Gene

By Collection



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