The Jackson Laboratory

B6.Cg-Tg(LCK-NFKBIA)5Dwb/J

Stock No: **003567** | IκBα(ΔN)

Transgenic

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

PLACE ORDER

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epitope and exhibit a significant proliferative defect and impairment of normal T cell development.

Donating Investigator

IMR Colony, The Jackson Laboratory

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GENETIC OVERVIEW

Genetic Background **Generation**

Tg(LCK-NFKBIA)5Dwb

Allele Type

Transgenic (Dominant negative, Inserted expressed sequence, Humanized sequence)

VIEW GENETICS

RESEARCH APPLICATIONS

Immunology, Inflammation and Autoimmunity Research
Cell Biology Research

VIEW ALL RESEARCH APPLICATIO

BASE PRICE

Starting at:

$2,854.50 Domestic price Cryo Recovery

VIEW PRICE LIST

Details

Detailed Description

Mice hemizygous for TgN(LCK-NFKBIA)5Dwb transgene exhibit a complete inactivation of the NFKB signalling pathway. The T cell lineage expresses a trans-dominant form of IkBa that constitutively represses the activity of multiple NFKB/Rel proteins. Transgenic cells expressing this inhibitor exhibit a significant proliferative defect. Mitogenic stimulation of splenocytes leads to increased apoptosis of transgenic T cells. Transgene expression also impairs the development of normal T cell populations as evidenced by diminished numbers of TCR^{hi} CD8 single-positive thymocytes. This defect is significantly amplified in the periphery and is accompanied by a decrease in $CD4^{+}$ T cells.

Expression Data

Control Suggestions

Selected References

Genetics

Tg(LCK-NFKBIA)5Dwb

Disease/Phenotype

Disease Terms

Research Areas By Phenotype

Mammalian Phenotype Terms by Genotype

References

Technical Support

CONTACT TECHNICAL SUPPORT

Genotyping Protocols
Standard PCR:Tg(LCK-NFKBIA)5Dwb
Genotyping resources and troubleshooting

Breeding Considerations

Mice homozygous for this transgene are reported to be viable and fertile. When maintaining a live colony, transgene carrier mice may be bred together, to wildtype (non-carrier) mice from the colony or to C57BL/6J inbred mice (Stock No. 000664). Alternatively, homozygous mice may be bred together.

Additional Breeding and Husbandry Support

Citation
When using the IκBα(ΔN) mouse strain in a publication, please cite the originating article(s) and include JAX stock #003567 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 | **Internatic**

Pricing effective for USA, Canada and Mexico shipping destinations

CRYORECOVERY - DOMESTIC PRICING

SERVICE/PRODUCT	DESCRIPTION	PRICE
Cryo Recovery	Hemizygous or Non carrier for Tg(LCK-NFKBIA)5Dwb	$2,854.50

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo	B6.Cg-Tg(LCK-NFKBIA)5Dwb/J Frozen Embryo	$2595.00

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.

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.

Terms Of Use

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General Terms and Conditions

QUESTIONS ABOUT TERMS OF USE

LICENSING INFORMATION

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

Related Strains

All

By Allele

By Gene

By Collection