



C . 1 2 9 ~~BALB/c~~^{traf1^{si}} / T s i P r y h J

Stock No: 008074

Congenic, Targeted Mutation



CRYORECOVERY

P L A C E O R D E R

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

Overview

Also Known As: BALB/c-TRAF1, BALB/c TRAF1

These TRAF1 mutant mice may be useful in studying negative regulation of tumor necrosis factor (TNF) signaling, NF- κ B and AP-1 signaling, T cell receptor (TCR)-induced proliferation of T cells, Th2 responses, TRAF1/Bim function in CD8 memory T cell survival, allergic airway diseases and Rheumatoid arthritis, as well as the role of TRAF1 activation in the pathogenesis of lymphomas. Of note, TRAF1 mutant mice are available on either a BALB/c congenic (Stock No. 008074) or C57BL/6 congenic (Stock No. 008076) background.

Donating Investigator

Gloria Pryhuber, University of Rochester

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GENETIC OVERVIEW

Genetic Background

Generation

Traf1^{tm1Tsi}

Allele Type

Gene Symbol

Gene Name

Targeted (Null/Knockout)

Traf1

TNF receptor-associated factor 1

[VIEW GENETICS](#)

RESEARCH APPLICATIONS

Apoptosis Research

Cell Biology Research

Cancer Research

Research Tools

Immunology, Inflammation and Autoimmunity Research

Internal/Organ Research

[VIEW ALL RESEARCH APPLICATIONS](#)

BASE PRICE

Starting at:

\$2,854.50 Domestic price Cryo Recovery

[VIEW PRICE LIST](#)

[- Details](#)

[- Detailed Description](#)

Mice homozygous for the TRAF1 mutant allele (TRAF1^{-/-}) are viable and fertile. No protein expression from the targeted gene is observed in CD40-stimulated splenocytes isolated from homozygous mice. Homozygous mice on a BALB/c congenic background (BALB/c-TRAF1^{-/-}) exhibit acute liver injury and elevated serum liver enzymes following intratracheal TNF-alpha treatment. Furthermore, activated TRAF1^{-/-} T cells have significantly increased expression of Th2 cytokines (IL-4, IL-5 and IL-13) that elicit enhanced Th2 responses *in vivo*. BALB/c-TRAF1^{-/-} T cells exhibit elevated nuclear expression of NFAT-interacting protein (NIP45) and also induce significantly more intense pulmonary inflammation and higher airway hyper-responsiveness in OVA allergic inflammation models. Pulmonary leukocyte recruitment is attenuated following inhalation of lipopolysaccharide in BALB/c-TRAF1^{-/-} mice.

Homozygous mice on a C57BL/6 congenic background (B6-TRAF1^{-/-}) have abnormal memory T cell survival and impaired influenza virus CD8 T cell responses. Activated B6-TRAF1^{-/-} T cells accumulate increased levels of proapoptotic BH3-only family member Bim, particularly the most toxic isoform, Bim_s. The donating investigator reports that B6-TRAF1 mutant mice may be difficult to breed and gain more weight than BALB/c-TRAF1 mutant mice. TRAF1 strains may be useful in studying negative regulation of tumor necrosis factor (TNF) signaling, NF-kB and AP-1 signaling, T cell receptor (TCR)-induced proliferation of T cells, Th2 responses, TRAF1/Bim function in CD8 memory T cell survival, allergic airway diseases and Rheumatoid arthritis, as well as the role of TRAF1 activation in the pathogenesis of lymphomas.

Of note, TRAF1 mutant mice are available on either a BALB/c congenic (Stock No. 008074) or C57BL/6 congenic (Stock No. 008076) background.

In an attempt to offer alleles on well-characterized or multiple genetic backgrounds, alleles are frequently moved to a genetic background different from that on which an allele was first characterized. It should be noted that the phenotype could vary from that originally described. We will modify the strain description if necessary as published results become available.

+ Development

+ Control Suggestions

+ Selected References

- Genetics

+ *Traf1*^{tm1Tsi}

- Disease/Phenotype

+ Disease Terms

+ Research Areas By Genotype

+ Mammalian Phenotype Terms by Genotype

+ References

- Technical Support

T E C H N I C A L S P O K E S C H A T

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

Standard PCR: [Traf1^{tm1Tsi}](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

When maintaining a live colony, these mice may be bred as homozygotes.

[Additional Breeding and Husbandry Support](#)

Citation

When using the C.129S4-Traf1^{tm1Tsi}/TsiPryhJ mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #008074 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	GENOTYPE	PRICE
Cryo Recovery	Heterozygous for	\$2,854.50

We will fulfill your order by providing at least two carriers for each strain ordered. The total number, sex, and genotypes provided will vary, although typically 8 or more animals are provided. Please check genotypes which will be recovered. While the genotypes of all animals produced will be communicated to you prior to scheduling shipment, the genotypes of animals provided may not reflect the mating scheme and genotypes described in the strain description. Animals are typically ready to ship in 11-14 weeks. If a second recovery is required to produce the minimum number of animals, then delivery time would increase to approximately 25 weeks. If we fail to produce animals of the correct genotype, you will not be charged. We cannot guarantee the reproductive success of mice shipped to your facility. If the mice are lost after the first three days (post-arrival) or do not produce progeny at your facility, a new order and fee will be necessary.

Cryorecovery to establish a [Dedicated Supply](#) for greater quantities of mice. Mice recovered can be used to establish a dedicated colony to contractually supply you mice according to your requirements. Price by quotation.

Related Products and Services

Frozen Mouse Embryo	C.129S4-Traf1^{tm1Tsi}/TsiPryhJ Frozen Embryo	\$2595.00
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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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By Allele

By Gene

By Collection

All Related Strains



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