C57BL/6–Itgb7tm1Cgn/J

Stock No: 002965 | beta7−

Targeted Mutation

PLACE ORDER
3–6 week lead time for most orders depending on quantity and age range requested

Overview

Also Known As: beta7−
Mice homozygous for Itgb7tm1Cgn show impaired formation of gut-associated lymphoid tissue (GALT). These mice may be useful for studies lymphocyte migration and homing in inflammatory and colitis related pathology.

Donating Investigator
Klaus Rajewsky, Max Delbruck Centre for Molecular Medicine

READ MORE +
**GENETIC OVERVIEW**

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<th>Genetic Background</th>
<th>Generation</th>
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<td>F7+8 F1</td>
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**Itgb7**<sup>tm1Cgn</sup>

** Allele Type **
Targeted (Null/Knockout)

** Gene Symbol **
Itgb7

** Gene Name **
Integrin beta 7

**RESEARCH APPLICATIONS**

Immunology, Inflammation and Autoimmunity Research
Cell Biology Research

**BASE PRICE**

Starting at:

$271.00 Domestic price for female

**Details**

**Detailed Description**

Mice homozygous for the Itgb7<sup>tm1Cgn</sup> targeted mutation have a marked hypoplasia of the gut-associated lymphoid tissue (GALT). This deficit is apparently due to the failure of Itgb7-deficient lymphocytes to arrest and adhere in the GALT. Beta7 integrin deficient mice also fail to mount a normal intestinal IgA response to ovalbumin and cholera toxin, and they show less graft-versus-host disease because of decreased homing of alloreactive T cells to intestine.

**Development**

**Control Suggestions**

**Selected References**

**Genetics**

**Itgb7<sup>tm1Cgn</sup>**
Disease/Phenotype

- Disease Terms

- Research Areas By Genotype

- Mammalian Phenotype Terms by Genotype

- References

Technical Support

CONTACT TECHNICAL SUPPORT

Genotyping Protocols
High Resolution Melting: ltb^1Cgn
Standard PCR: ltb^1Cgn
Genotyping resources and troubleshooting

Dietary Information
LabDiet® 5K52 formulation (6% fat)

Mating System
Homozygote x Homozygote

Appearance
black
Related Genotype: a/a

Citation
When using the beta² mouse strain in a publication, please cite the originating article(s) and include JAX stock #002965 in your Materials and Methods section.

Facility Barrier Level Descriptions

- AX11 (Maximum)

Pricing & Availability

3–6 week lead time for most orders depending on quantity and age range requested

Repository Live

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

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<th>AGE</th>
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Related Strains

All

By Allele

By Gene

By Collection

All Related Strains
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