C57BL/6-Tg(KRT14-Igk/OVA*/*PDGFRB)6mSika/J

Stock No: 026560 | K14-mOVA(6)

Coisogenic, Transgenic

CRYO RECOVERY

PLACE ORDER

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

Also Known As: K14-mOVA(6)
These transgenic mice express a membrane-bound form of chicken ovalbumin in the epidermis (keratinocytes) where it serves as a model self-antigen. K14-mOVA transgenic mice may be useful in applications related to graft-versus-host disease and peripheral immune tolerance.

Donating Investigator
Hong Zhang, NIH/NIAMS
Stephen I. Katz, NIH/NIAMS

GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
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<tr>
<td>Tg(KRT14-Igk/OVA*/PDGFRB)6mSika</td>
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Allele Type
Transgenic (Inserted expressed sequence)

RESEARCH APPLICATIONS
Research Tools
Immunology, Inflammation and Autoimmunity Research

BASE PRICE
Starting at:
$2,854.50 Domestic price Cryo Recovery
**Detailed Description**

These K14-mOVA transgenic mice express a membrane-bound ovalbumin (mOVA) fusion protein under the direction of the human KRT14, keratin 14, gene promoter. Transgene expression (mRNA) is detected by RT-PCR analysis in skin, but not in other tissues (brain, lymph node, heart, liver, spleen, kidney, intestine, skeletal muscle, esophagus). Transgenic mice are tolerant to ovalbumin antigen and do not exhibit delayed-type hypersensitivity when primed and challenged with ovalbumin. After intravenous or intradermal injection of CD8+ T cells isolated from OT-I transgenic mice (see, for example, Stock No. 003831), K14-mOVA transgenic mice lose weight and develop graft-versus-host disease-like skin and esophageal lesions. Lymphocytes from ovalbumin-immunized transgenic mice have reduced proliferative response to ovalbumin. Mice that are homozygous for the transgene are viable and fertile.

**Development**

**Expression Data**

**Control Suggestions**

**Selected References**

**Genetics**

**Tg(KRT14-Igk/OVA+/PDGFRB)6mSika**

**Disease/Phenotype**

**Disease Terms**

**Research Areas By Phenotype**

**Mammalian Phenotype Terms by Genotype**

**References**

**Technical Support**

**Genotyping Protocols**

Standard PCR: Tg(KRT14-Igk/OVA+/PDGFRB)6mSika

Genotyping resources and troubleshooting
Breeding Considerations
When maintaining a live colony, these mice can be bred as homozygotes.

Additional Breeding and Husbandry Support

Citation
When using the K14-mOVA(6) mouse strain in a publication, please cite the originating article(s) and include JAX stock #026560 in your Materials and Methods section.

Production of mice from cryopreserved embryos or sperm occurs in a maximum barrier room, G200

Pricing & Availability

Cryo Recovery
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<table>
<thead>
<tr>
<th>SERVICE/PRODUCT</th>
<th>DESCRIPTION</th>
<th>PRICE</th>
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<tr>
<td>Cryo Recovery</td>
<td>Hemizygous for Tg(KRT14-Igk/OVAL/PDGFRB)6mSika</td>
<td>$2,854.50</td>
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Related Products and Services

<table>
<thead>
<tr>
<th>SERVICE/PRODUCT</th>
<th>DESCRIPTION</th>
<th>PRICE</th>
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<tbody>
<tr>
<td>Frozen Mouse Embryo</td>
<td>C57BL/6-Tg(KRT14-Igk/OVA*/PDGFRB)6mSika/J Frozen Embryo</td>
<td>$2595.00</td>
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Terms Of Use
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