These P25 TCR-Tg transgenic mice contain CD4+ T cells expressing a T-cell antigen receptor that recognizes Mycobacterium tuberculosis antigen. These mice may be useful for studying the process of the adaptive immune response to M. tuberculosis infection in the lungs.

Donating Investigator
Joel D Ernst, New York University School of Medicine
Details

Detailed Description

These P25 TCR-Tg mice contain CD4+ T cells expressing a transgenic T-cell antigen receptor that recognizes peptide 25 (aa 240-254) of Mycobacterium tuberculosis Antigen 85B bound to I-Ab. Homozygotes are viable, fertile, and normal in size. These transgenic mice, with T cell response specific to M. tuberculosis infection, may be useful for studying the process of the adaptive immune response to M. tuberculosis infection in the lungs. These mice exhibit an immune response that is not dependant on bacteria number in the tissue, but rather on movement of bacterium into the draining nodes of the lungs.

Development

Expression Data

Control Suggestions

Selected References

Genetics

Tg(H2-K\(^{b}\) -Tcra,-Tcrb)P25Ktk

Disease/Phenotype

Disease Terms

Research Areas By Phenotype

Mammalian Phenotype Terms by Genotype

References
Genotyping Protocols
Standard PCR: \(Tg(H2-K-Tcrb)\)
Standard PCR: \(Tg(H2-K-Tcra)\)
Genotyping resources and troubleshooting

Breeding Considerations
When maintaining a live colony, transgene carrier mice may be bred with wildtype (noncarrier) mice from the colony or with C57BL/6J inbred mice (Stock No. 000664). The Donating Investigator maintains these mice as homozygotes.

Additional Breeding and Husbandry Support
Mating System
Hemizygote x Noncarrier

Citation
When using the P25 TCR-Tg mouse strain in a publication, please cite the originating article(s) and include JAX stock #011005 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

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

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<tr>
<th>SERVICE/PRODUCT</th>
<th>DESCRIPTION</th>
<th>PRICE</th>
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<tbody>
<tr>
<td>Cryo Recovery</td>
<td>Hemizygous or Non carrier for Tg(H2-K&lt;beta&gt;-Tcra,-Tcrb)P25Ktk</td>
<td>$2,854.50</td>
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