Mice carrying this MHC class II restricted rearranged T cell receptor transgene on a H2d background react to ovalbumin (OVA) peptide antigen. Intraperitoneal administration of OVA to transgenic mice results in a rapid deletion of the immature CD4+ CD8+ TCRlo thymocytes with progression to mature thymocytes. Apoptosis of cortical thymocytes in these mice occurs within 20 hours of treatment. These mice may be useful for studies of T cell selection and death in immune responses and in the generation of tolerance, as well as for studying the mechanisms of apoptosis.

Donating Investigator
Dr. Kenneth Murphy, Washington Univ School of Medicine
Mice carrying the MHC class II restricted rearranged T cell receptor transgene, Tg(DO11.10)10Dlo, react to ovalbumin (OVA) peptide antigen. Intraperitoneal administration of OVA to transgenic mice results in a rapid deletion of the immature CD4⁺ CD8⁺ TCR β thymocytes with progression to mature thymocytes. Apoptosis of cortical thymocytes within 20 hours of treatment indicates that apoptosis is important in the development of antigen-induced tolerance. Use of this rearranged T cell receptor transgene requires H2d background.
Genetics

+ Tg(DO11.10)10Dlo

Disease/Phenotype

+ Disease Terms

+ Research Areas By Phenotype

+ Mammalian Phenotype Terms by Genotype

+ References

Technical Support

CONTACT TECHNICAL SUPPORT

Genotyping Protocols
Standard PCR: Tg(DO11.10)10Dlo
Separated PCR: Tg(DO11.10)10Dlo-Tcrb
Separated PCR: Tg(DO11.10)10Dlo-Tcra
QPCR: Tg(DO11.10)10Dlo-Tcra qPCR
QPCR: Tg(DO11.10)10Dlo-Tcrb qPCR
Genotyping resources and troubleshooting

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

Breeding Considerations
This strain is a good breeder.

Additional Breeding and Husbandry Support
Mating System
Homozygote x Homozygote
Appearance
albino
Related Genotype: Tyrp1^b / Tyrp1^b Tyr^c / Tyr^c

Citation
When using the C.Cg-Tg(DO11.10)10Dlo/J mouse strain in a publication, please cite the originating article(s) and include JAX stock #003303 in your Materials and Methods section.

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