This TALEN-mediated deletion in \( \text{Alb} \) results in the absence of any albumin protein in the blood. When combined with the knockout allele of the FcRn a-chain and a transgene expressing a human FcRn a-chain (FCGRT) under control of the human FcRn promoter, this albumin-deficient model may be useful for studying human serum albumin pharmacokinetics.

Need assistance evaluating antibodies in FcRn mice? Human preclinical pharmacokinetic (PK) analysis is available. See our FcRn full service platform.

Donating Investigator
Michael Wiles, The Jackson Laboratory
Details

Detailed Description
Mice homozygous for the \( \text{Alb}^{em12Mvw} \) allele lack albumin protein in their blood. FcRn-/- hFcRn (32) Tg mice harbor a knockout allele of the Fc receptor, IgG, alpha chain transporter (\( \text{Fcgrt}^{em1Dcr} \)) and express a human FcRn a-chain (FCGRT) transgene under control of the human FcRn promoter. Mouse IgG levels are low due to the species-specific activity of human FcRn. Mice do not exhibit any gross abnormal phenotype. This albumin-deficient model may be useful for studying the biology and pathobiology of serum albumin as well as evaluating human albumin pharmacokinetics.

C57BL/6J-Alb\( ^{em8Mvw} \) /MvwJ (Stock No. 025200) was generated as a control for this strain.

Development

Expression Data

Control Suggestions

Selected References
Genotyping Protocols
End Point Analysis: Alb-EP
Standard PCR: Fcgrt
Standard PCR: Fcgrt Alternate1
QPCR: Tg(FCGRT)32Dcr
Probe: Tg(FCGRT)-Chr2-Probe-alternate1
Standard PCR: Fcgrtm1Dcr Alternate1
Genotyping resources and troubleshooting
Dietary Information
LabDiet® 5K20 formulation (10% fat)
Breeding Considerations

While maintaining a live colony, these mice are bred as homozygotes. Experience at The Jackson Laboratory indicates mating males and females homozygous for all 3 genes to be highly non-productive and litters produced often don't make it to wean. However, we have found that mating het, hom, hom x hom, hom and reciprocal to consistently provide litters. It is not uncommon to lose the first litter.

Additional Breeding and Husbandry Support
Mating System

heterozygous for Alb<sup>em12Mvw</sup>, Homozygous for Fcgr<sup>tm1Dcr</sup>, Homozygous for Tg(FCGRT)32Dcr or homozygous for Alb<sup>em12Mvw</sup>, Homozygous for Fcgr<sup>tm1Dcr</sup>, Homozygous for Tg(FCGRT)32Dcr x Heterozygous for Alb<sup>em12Mvw</sup>, Homozygous for Fcgr<sup>tm1Dcr</sup>, Homozygous for Tg(FCGRT)32Dcr

Citation

When using the B6.Cg-Tg(FCGRT)32Dcr Alb<sup>em12Mvw</sup> Fcgr<sup>tm1Dcr</sup>/MvwJ mouse strain in a publication, please cite the originating article(s) and include JAX stock #025201 in your Materials and Methods section.

Animal Health Reports
Facility Barrier Level Descriptions

- AX12 (Maximum)

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