genOway | ULTIMATE PREDICTABILITY

genO-hFcγR/hFcRn (scan or click)

DOUBLE-HUMANIZED genO-hFcγR/hFcRn MOUSE MODEL

Double-humanized genO-hFcγR/hFcRn mouse model to improve PK assessment of compounds with extended half-life through FcRn binders

APPLICATIONS

genO-hFcγR/hFcRn drives advances across **immuno-oncology**, **infectious diseases**, **inflammation** and **autoimmunity**, enabling the following applications:

- ☑ Assess **pharmacokinetics** and **pharmacodynamics (PK/PD) features**, including biodistribution and binding affinity
- ☑ **Screen FcR-binding therapeutics** based on extended half-life
- ☑ **Assess the efficacy** of optimized therapeutics such as Fc-engineered antibodies, constructs fused to hSA, FcRn-binding proteins or small molecules



MODEL USED BY

argenx | innate pharma | VIB

MODEL FEATURES

- ☑ Physiological expression and distribution of human FcγR and human FcRn
- ☑ Higher physiological affinity of human serum albumin to human FcRn
- ☑ Functional receptors enabling assessment of Fc-mediated effector functions
- ☑ No expression of murine FcγR nor murine FcRn
- ☑ Fully immunocompetent model

ORDERS, DELIVERY & CARE

- ☑ Orders are made directly with genOway; breeding, housing and delivery are outsourced
- ☑ Breeding facilities in the US and Europe through our trusted partners:

TACONIC BIOSCIENCES charles river

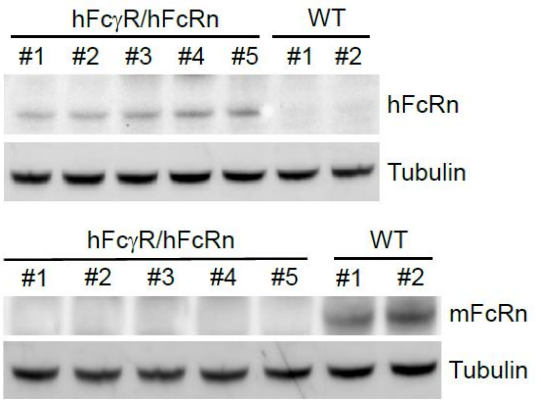
- ☑ Quick, compliant, and reliable door-to-door delivery worldwide at your facility or at the CRO of your choice
- ☑ Models with certified **SOPF** health status from **AAALAC-accredited** and **PHS-assured** professional breeders

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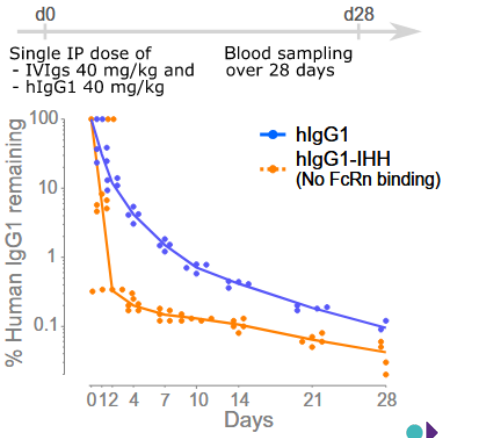
genO-hFcγR/hFcRn (scan or click)

SELECTED VALIDATION DATA

More data available on our website or upon request

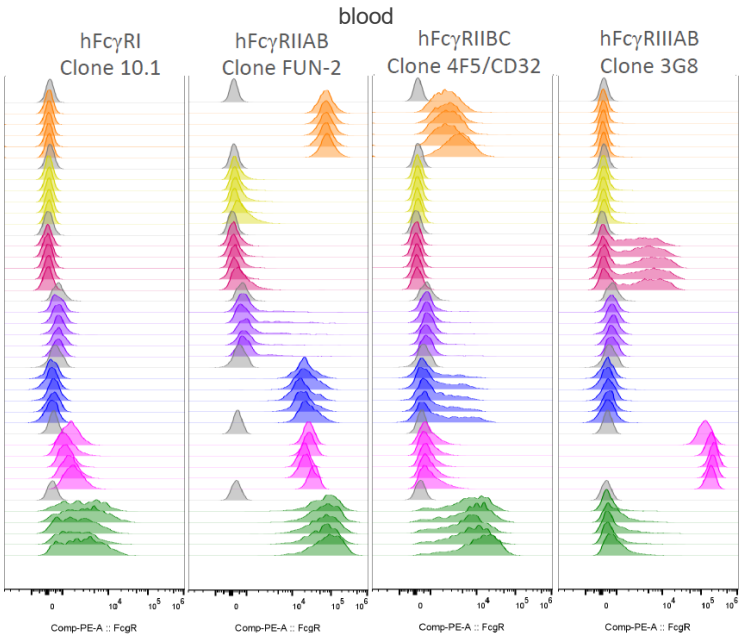


Human FcRn is detected in the lungs of genO-hFcγR/hFcRn mice, while the expression of murine FcRn is lost



Half-life of Fc-engineered hIgG1 genO-hFcγR/hFcRn mice

Humanized FcγR expression



Human-like FcγR (left) and FcRn (right) expression pattern in humanized genO-hFcγR/hFcRn mice

KEY PUBLICATIONS

VIB

Cross-species cellular mapping and humanization of Fcγ receptors to advance antibody modeling
Van Damme FKA et al., 2026 - Sci Immunol

innate pharma

Novel FcγR humanized mouse models enabling efficacy and PK/PD of therapeutic antibodies
Fabiane Sônego et al., 2024 - Poster for AACR

argenx

A cross-species map and humanized mouse model of Fcγ receptors and FcRn
Van Damme FKA et al., 2023 - Poster for EMDS

RELATED MODELS

genO-hCD47/hSIRPα/hFcγR | genO-hSA/hFcRn | genO-hFcγR | genO-hSA/hFcRn-RAG1KO

genO-hFcγR/hIgG1 | genO-hTFRC/hFcγR | genO-hIgE/hFcεR1

For more information

Visit the genO-hFcγR/hFcRn page

For further inquiries

Contact Us