genOway | ULTIMATE PREDICTABILITY

genO-hFcγR (scan or click)

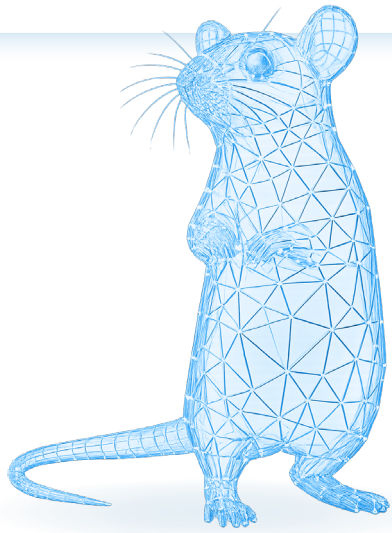
HUMANIZED genO-hFcγR MOUSE MODEL

Preclinical humanized Fc-gamma receptor (genO-hFcγR) model enabling the assessment of Fc receptor-targeted therapies

APPLICATIONS

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

- ☑ Assess the **Fc-mediated effector function** of biologics
  - Evaluation of B-cell depletion following treatment with anti-CD20 antibodies
  - Testing the protective role of antibodies in the context of infection, such as influenza
  - *Ex vivo* assessment of antibody-dependent cellular cytotoxicity (ADCC) induced by different monoclonal antibodies
- ☑ **Rank Fc-engineered antibodies** with enhanced or reduced binding to FcγR
- ☑ Gain insight into the **mechanism of action** (MOA) of biologics



MODEL USED BY

argenx · asylia THERAPEUTICS · innate pharma · VIB · VIR

MODEL FEATURES

- ☑ Fully immunocompetent model
- ☑ genO-hFcγR mice have a human-like expression pattern
- ☑ No expression of murine FcγR
- ☑ Functional receptors enabling assessment of Fc-mediated effector functions

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

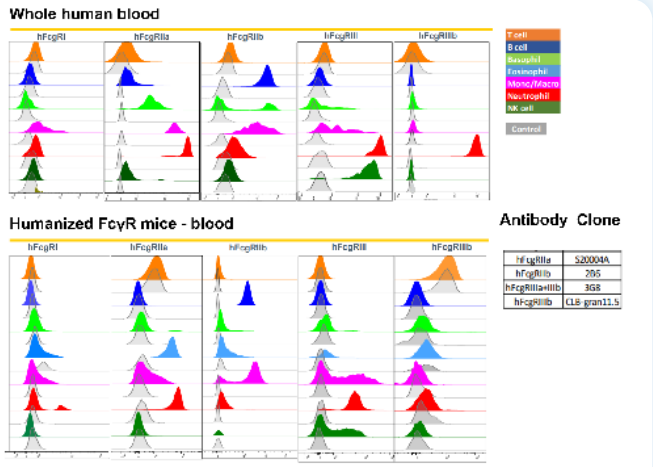
- ☑ Quick, compliant, and reliable door-to-door delivery worldwide at your facility or at the CRO of your choice
- ☑ Models with certified **SOPF** health status from **AAALAC-accredited** and **PHS-assured** professional breeders

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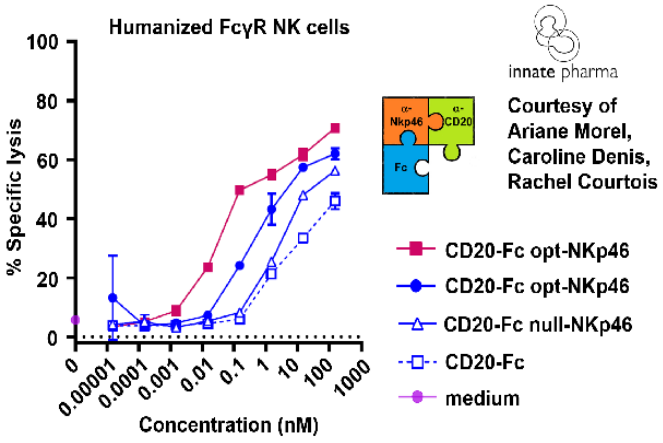
genO-hFcγR (scan or click)

SELECTED VALIDATION DATA

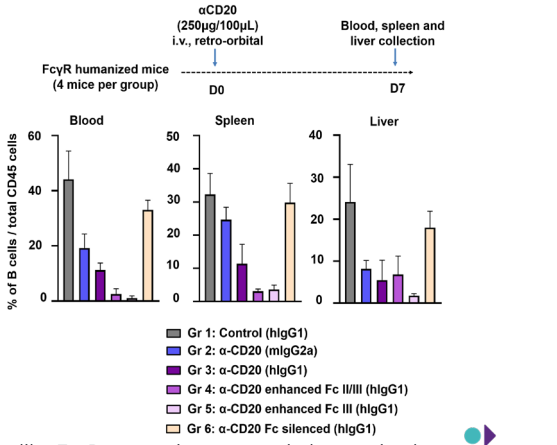
More data available on our website or upon request



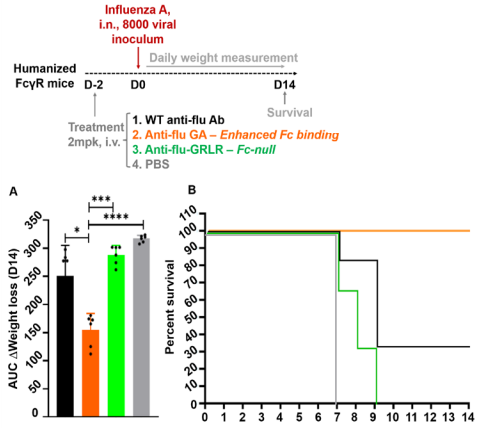
Human-like FcγR expression pattern in humanized genO-hFcγR mice



Humanized genO-hFcγR model enables ranking of antibodies



Human-like FcγR expression pattern in humanized genO-hFcγR mice



Efficacy of Fc-engineered anti-flu antibodies in humanized genO-hFcγR mice

KEY PUBLICATIONS

Science Immunology

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

ASM Microbiology Spectrum

Analysis of Fc-dependent effector functions of anti-malaria circumsporozoite protein antibodies
Stefanutti E et al., 2025 - Microbiol Spectr

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

RELATED MODELS

genO-hFcγR/hFcRn	genO-hCTLA-4/hFcγR	genO-panhCD3/hFcγR	genO-hClec9a/hCD40/hFcγR
genO-hFcγR/hSA/hFcRn	genO-hVISTA/hFcγR	genO-hCD47/hSIRPα/hFcγR	genO-hFcγR/hIgG1
genO-hPD-1/hFcγR	genO-hTFRC/hFcγR	genO-hCCR8/hCCL1/hFcγR	genO-hFcγR/hFcRn/hIgG1

For more information

Visit the genO-hFcγR page

For further inquiries

Contact Us