

Immunodeficient Models

A large portfolio with a range of immunodeficiencies on different strain backgrounds

Immunodeficient models have contributed to major scientific advances in immunology, transplantation, oncology, stem cell research, and infectious disease therapies. Taconic Biosciences is proud to offer a wide variety of immunodeficient rodent models that can be supplied quickly and efficiently to help propel your research forward.

For additional information on immunodeficient models visit taconic.com



IMMUNODEFICIENT USES AND APPLICATIONS

XENOGRAFTS

Immunodeficient models are capable of engrafting cells and tissues from humans and other species.

Cancer cell lines can engraft in a wide variety of immunodeficient models. Patient-derived tumor xenografts (PDX) are typically engrafted in highly immunodeficient strains such as the CIEA NOG mouse*. Normal human tissues can also be engrafted in some models.

ADOPTIVE TRANSFER

Transfer cells from one strain to another to study cell function and track cell movement or to induce disease such as colitis.

Sets of models on a common strain background such as wild type C57BL/6NTac along with Jh, Rag2 and Rag2/Il2rg knockouts on the C57BL/6 background can serve as adoptive transfer partners. Cell surface markers such as CD45.1 (Ptpcr) on the C57BL/6NTac background (B6.SJL model# 4007) can help with determination of cell origin (host or recipient).

HUMAN IMMUNE SYSTEM ENGRAFTED

Super immunodeficient strains such as the CIEA NOG mouse* and NOG-EXL mouse can be engrafted with human immune cells or tissues to reconstitute a human immune system. Mice reconstituted with a human immune system represent critical research tools for basic research into the human immune system, modeling of certain human-specific infectious diseases with an immune component, as well as efficacy testing of immunotherapy approaches and safety assessment for new therapeutics.

Get in touch for more information about our products and services.

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COMPARISON TABLE OF KEY IMMUNODEFICIENT MOUSE AND RAT MODELS

Model Number	Model Name	Coat Color	Cell Deficiencies	Other Immunodeficiencies
NCRNU	NCr nude mouse			
NMRINU	NMRI nude mouse			
NIHRNU	NIH nude rat	  		
1147	Jh (BALB/c) mouse			
17758	Jh (C57BL/6) mouse			
CB17SC	C.B-17 scid mouse		 	
ICRSC	ICR scid mouse		 	
601	Rag2 (BALB/c) mouse		 	
RAGN12	Rag2 (C57BL/6) mouse		 	
CBSCBG	Scid-beige mouse		  	
4111	Rag2/Il2rg Double Knockout mouse (C57BL/6)		  	Dysfunctional dendritic cells.
11503	CIEA BRG mouse (BALB/c)		  	Dysfunctional dendritic cells.
NOG	CIEA NOG mouse**		  	Reduced complement activity, dysfunctional macrophages and dendritic cells, deficiencies in immune signalling, including cytokine production. The most immune deficient mouse available.

Key:

-  Black and White Nude
-  Black Nude
-  Albino Nude
-  Black
-  Albino
-  T Cell Deficient
-  B Cell Deficient
-  NK Cell Deficient

*Taconic offers a portfolio of next generation NOG models with additional genetic modifications such as expression of human cytokines to support engraftment of specific human cell types. See taconic.com/nog-portfolio for a full list.

Information on additional cryopreserved immunodeficient models available at: taconic.com

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