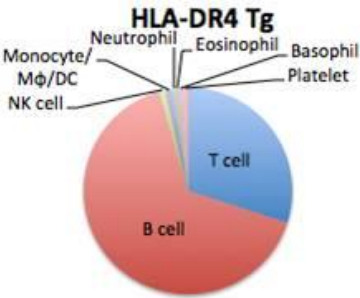


List of next generation immunodeficient mice

NOG-Iab KO, HLA-DR 0405 Tg	
Strain name	NOD.Cg-Prkdc<scid> Il2rg<tm1Sug> H2-Ab1<tmDoi> Tg(HLA-DR0405)/Jic
Strain description	Human cell-mediated immune response is possible. When HLA-DR0405-positive hematopoietic stem cells are transplanted and humanized and then immunized with an antigen, antigen-specific IgG is detected in the blood.
Strain development	The HLA-DRA1 and HLA-DRB1: 0405 genes were inserted into the pDOI-5 vector, and HLA-DR is expressed by the mouse I-E promoter.
Research application	Inducing antigen-specific IgG responses by immunization.
References	Suzuki M. et al. (2012) Induction of human humoral immune responses in a novel HLA-DR-expressing transgenic NOD/Shi-scid/γcnll mouse. <i>Int Immunol.</i> Apr;24(4):243-52.
URL	https://pubmed.ncbi.nlm.nih.gov/22402880/
Remarks	<p>Differentiated human cell fraction after HSC transfusion</p>  <p>The pie chart, titled 'HLA-DR4 Tg', illustrates the composition of differentiated human cells after hematopoietic stem cell (HSC) transfusion. The largest segment is the B cell (red), followed by the T cell (blue). Other segments include Neutrophil, Eosinophil, Basophil, Platelet, Monocyte/Mφ/DC, and NK cell, which represent smaller proportions of the total cell population.</p>