| | NOG-IL4 (NOG-hIL-4 Tg) |
|----------------------|--|
| Strain name | NOD.Cg-Prkdc <scid> Il2rg<tm1sug> Tg(CMV-IL4)/Jic</tm1sug></scid> |
| Strain description | Transgenic NOG mice that systemically express the human IL-4 gene. When human PBMC is transferred, a large amount of human T cells are engrafted and GVHD does not occur, so long-term experiments are possible. |
| Strain development | To generate the NOG-IL-4-Tg mice, human IL-4 cDNA was replaced with the β -galactosidase gene from the pCMV β vector (Clontech, Inc., Mountain View, USA). The vector was digested with XhoI restriction enzyme, and the linearized fragment (~4.2 Kb) was microinjected into pre-nuclear-stage fertilized eggs obtained by mating NOD/Shi and NOD-IL-2R γ (null) mice. |
| Research application | Antibody production and responses in cancer research |
| References | Kametani Y. et al. (2017) NOG-hIL-4-Tg, a new humanized mouse model for producing tumor antigen-specific IgG antibody by peptide vaccination. PLoS One. Jun 15;12(6) |
| URL | https://pubmed.ncbi.nlm.nih.gov/28617827/ |
| Remarks | - |