

hIL2

Nomenclature	C57BL/6Smoc- <i>IL2</i> ^{tm3(hIL2)Smoc}
Cat. NO.	NM-HU-190048
Strain State	Embryo cryopreservation

Gene Summary

Gene Symbol IL2	Synonyms	IL-2
	NCBI ID	16183
	MGI ID	96548
	Ensembl ID	ENSMUSG00000027720
	Human Ortholog	IL2

Model Description

The endogenous mouse IL2 gene was replaced by human IL2 gene.

Research Application: Immunotherapy, cancer research, drug screening

*Literature published using this strain should indicate: hIL2 mice (Cat. NO. NM-HU-190048) were purchased from Shanghai Model Organisms Center, Inc..

Validation Data

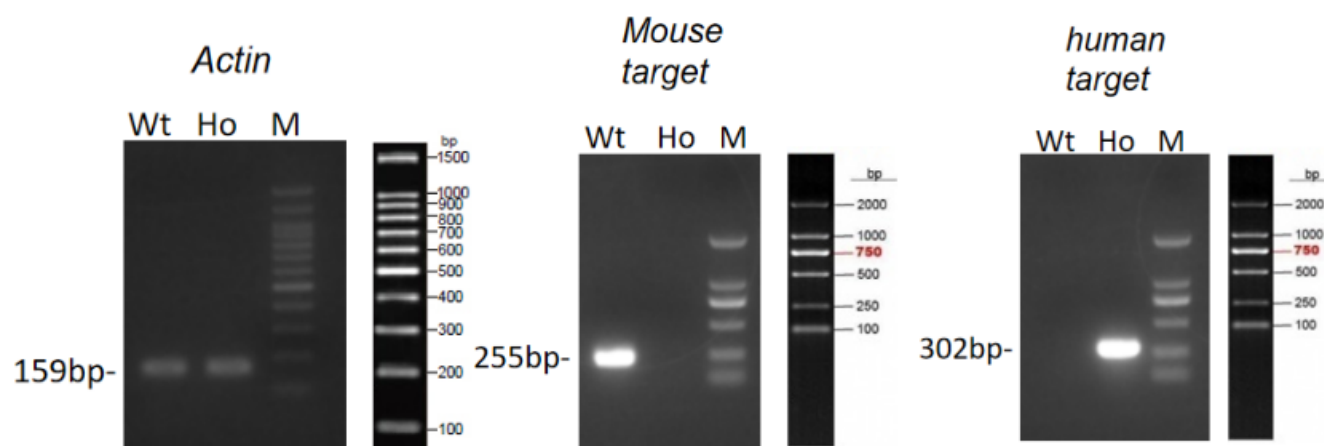


Fig1. Detection of IL2 expression by RT-PCR.

Wild type: only one band at 255 bp with primers F2/R2(mIL2); Homozygous: only one band at 320 bp with primers F1/R1(hIL2).

Abbr. M, DNA marker; HO, homozygous; HE, heterozygous; WT, wild type.

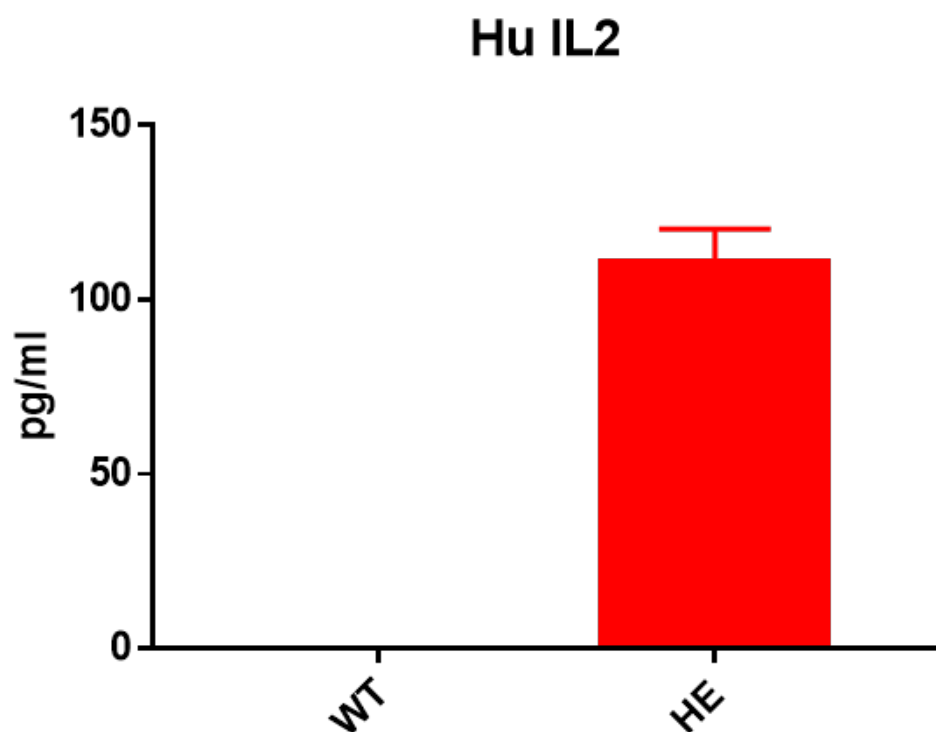


Fig2. Expression of human IL2 in the Serum of IL2-HU heterozygous mice is detected by ELISA.

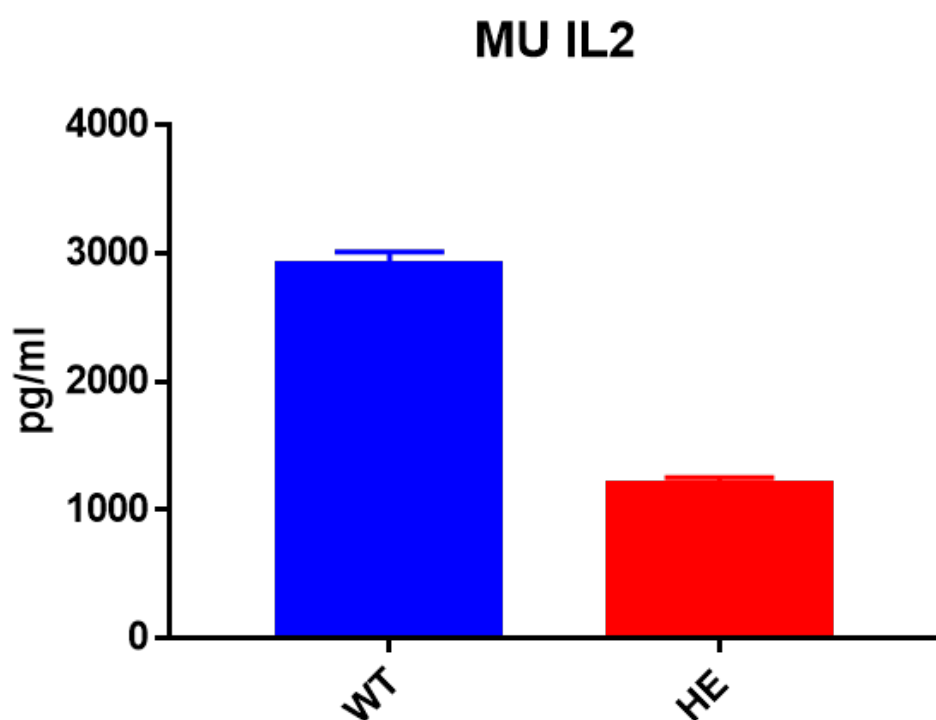


Fig3. Expression of murine IL2 in the Serum of IL2-HU heterozygous mice and is detected by ELISA.

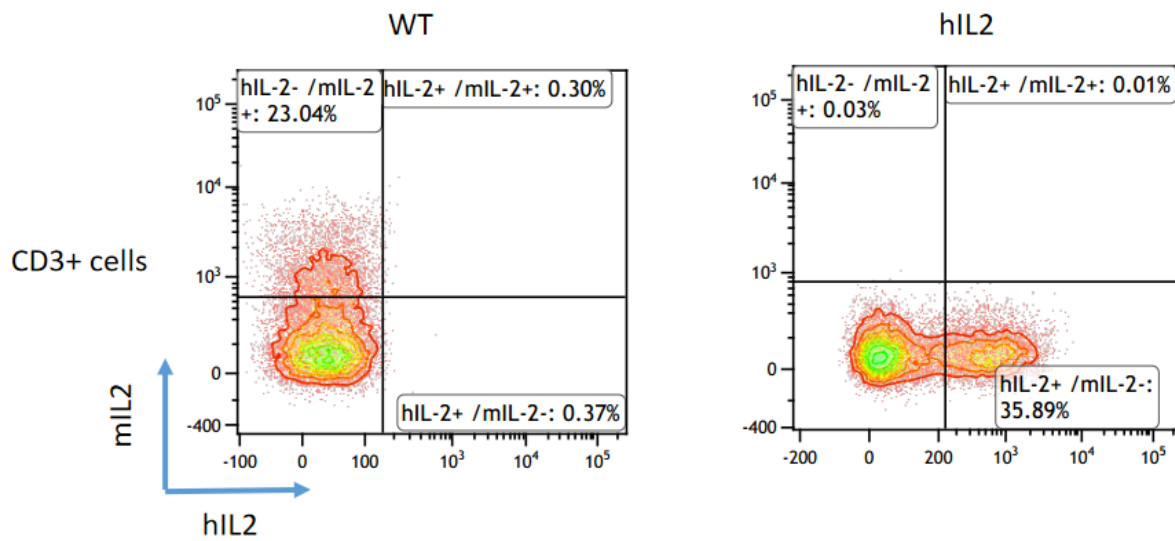


Fig4. Splenocytes from humanized IL2 mice were analyzed by flow cytometry after activation.

hIL2⁺ (but not mIL2⁺) cells were detectable in the homozygous hPD-L2 mice.