hCD19/hCD3E

Nomenclature	C57BL/6Smoc-*Cd19*$^{em1(hCD19)}$*Cd3e*$^{em1(hCD3E)/Smoc}$
Cat. NO.	NM-HU-190027
Strain State	Embryo cryopreservation

Gene Summary

Gene Symbol CD19	**Synonyms**	AW495831
	NCBI ID	12478
	MGI ID	88319
	Ensembl ID	ENSMUSG00000030724
	Human Ortholog	CD19
Gene Symbol CD3E	**Synonyms**	CD3; T3e; AI504783; CD3epsilon
	NCBI ID	12501
	MGI ID	88332
	Ensembl ID	ENSMUSG00000032093
	Human Ortholog	CD3E

Model Description

This CD19 and CD3E double knockin strain is established by crossing CD19-HU and CD3E-HU mice together. These double double knockin mouse models can be useful for evalueting the efficacy of potential immunotherapy drug combinations.

Research Application: Immune-related

*Literature published using this strain should indicate: hCD19/hCD3E mice (Cat. NO. NM-HU-190027) were purchased from Shanghai Model Organisms Center, Inc..

Validation Data

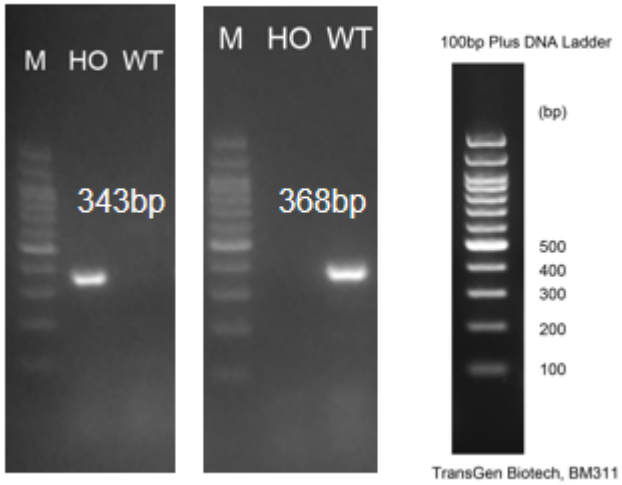

Fig1. Detection of CD19 expression in spleen by RT-PCR. Wild type: only one band at 368 bp with primers F1/R1(mCd19);Homoygous: only one band at 334 bp with primers F2/R2(hCD19); Abbr.. M, DNA marker; HO, homozygous; HE, heterozygous; WT, wild type.

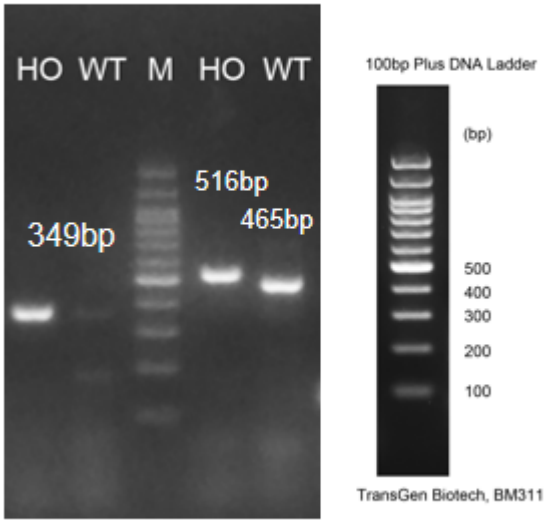

Fig2. Detection of CD3E expression in spleen by RT-PCR. Wild type: only one band at 465 bp with primers F1/R1(mCd3e);Homoygous: one band at 516 bp with primers F1/R1(recombinant hCD3E) and one band at 349 bp with primers F2/R2(hCD3E); Abbr.. M, DNA marker; HO, homozygous; HE, heterozygous; WT, wild type.

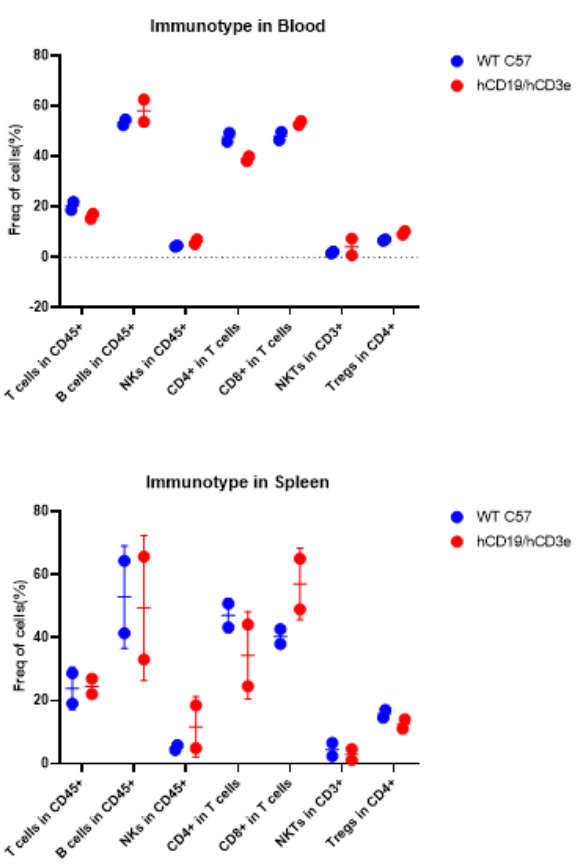

Fig3. Immunotype in blood in hCD19/hCD3E mice

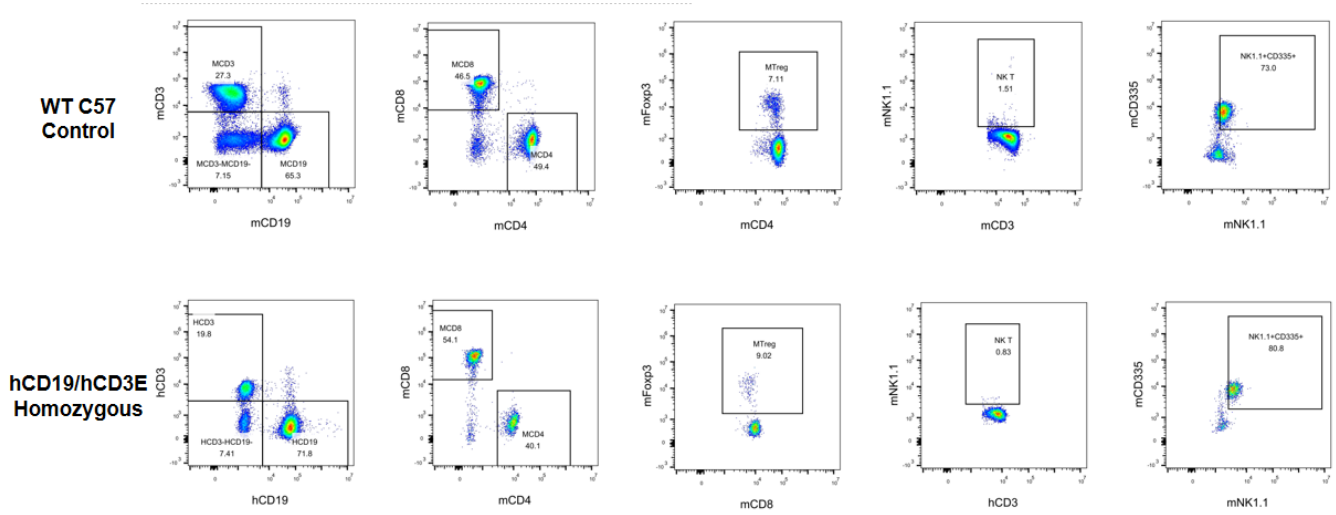

Fig4. Immunotype in blood in hCD19/hCD3E mice

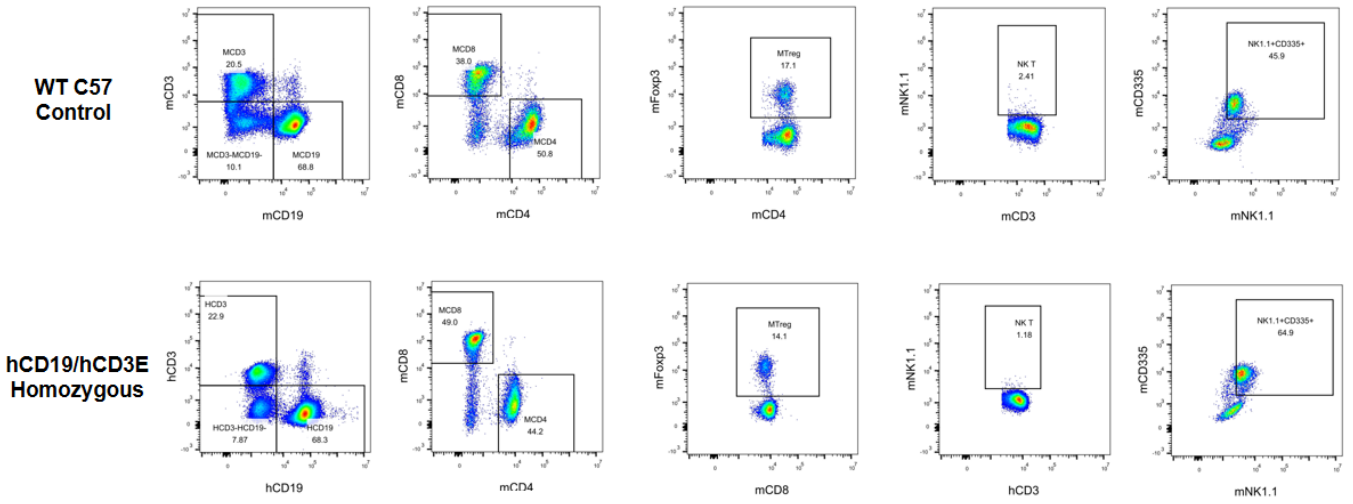

Fig5. Immunotype in spleen in hCD19/hCD3E mice

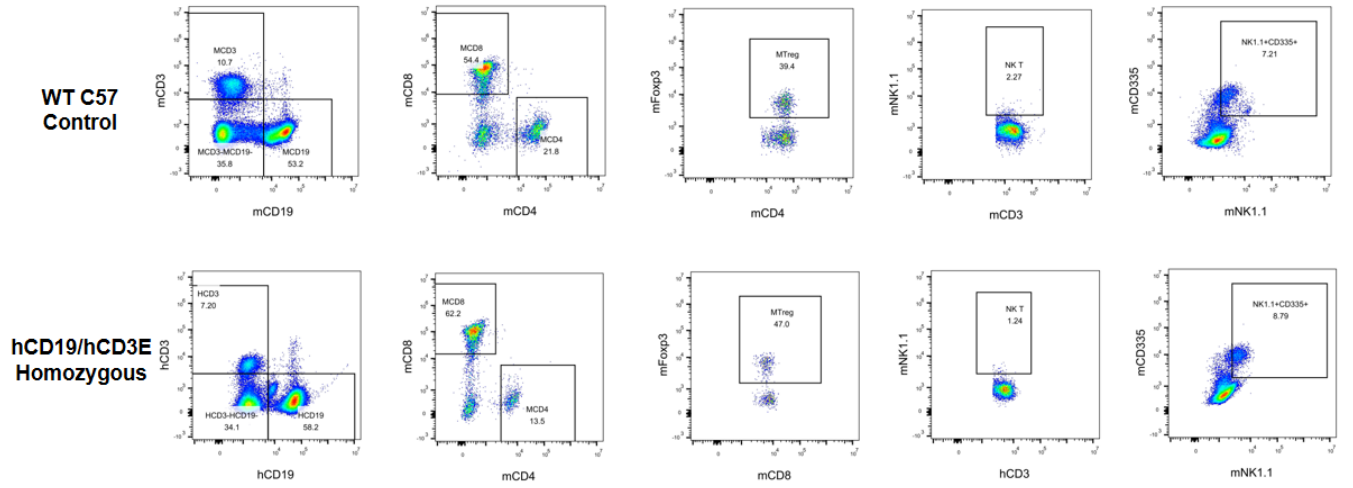

Fig6. Immunotype in bone marrow in hCD19/hCD3E mice