

hCD38(2)

Nomenclature	C57BL/6Smoc- <i>Cd38</i> ^{em2(CD38)Smoc}
Cat. NO.	NM-HU-190059
Strain State	Repository Live

Gene Summary

Gene Symbol CD38	Synonyms	I-19; ADPRC 1; Cd38-rs1
	NCBI ID	12494
	MGI ID	107474
	Ensembl ID	ENSMUSG00000029084
	Human Ortholog	CD38

Model Description

The endogenous mouse Cd38 gene was replaced by human CD38 gene. While hCD38 mice (Stock No. NM-HU-00113) have been pulled from shelves for some reasons.

Research Application: Immunotherapy, cancer research, drug screening

*Literature published using this strain should indicate: hCD38(2) mice (Cat. NO. NM-HU-190059) were purchased from Shanghai Model Organisms Center, Inc..

Validation Data

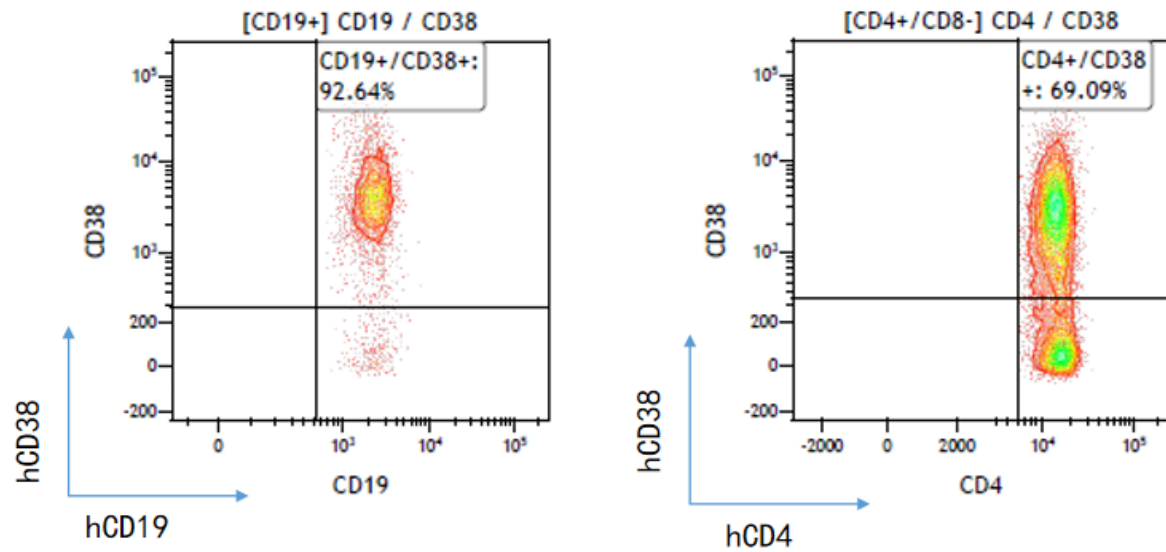


Fig1. hCD38 is highly expressed on both B cells and T cells in human PBMC.

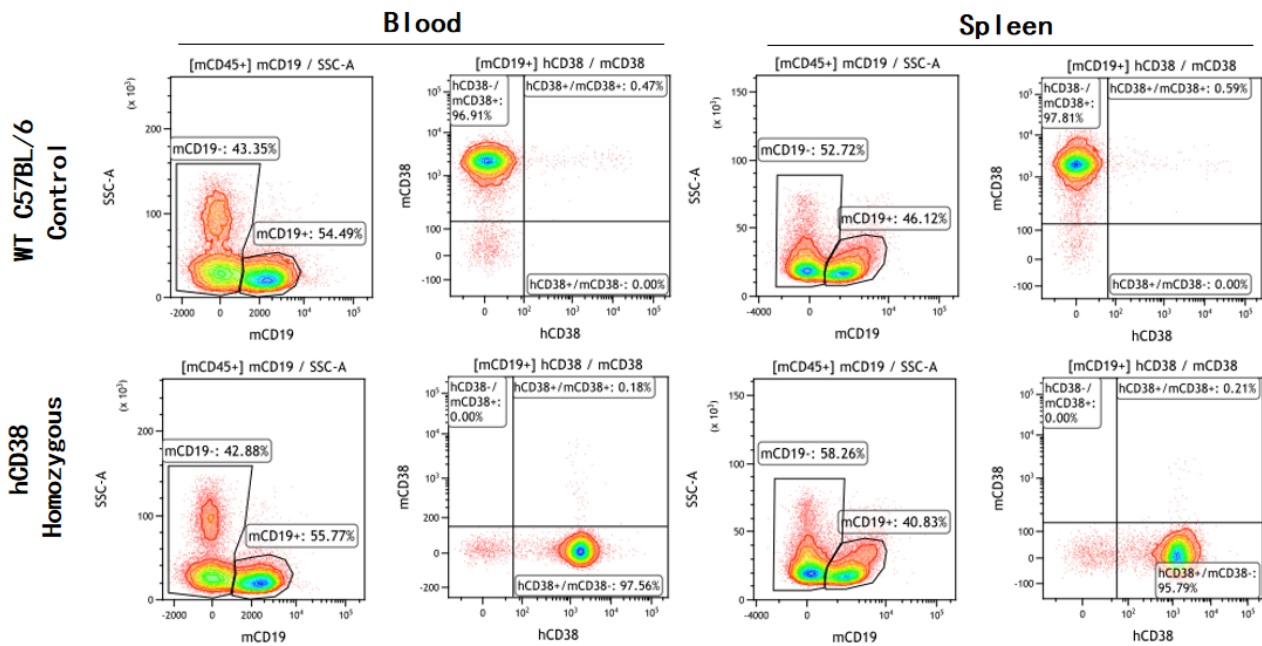


Fig2. m/hCD38 is highly expressed on blood and spleen-derived B cells in hCD38 knockin mice.

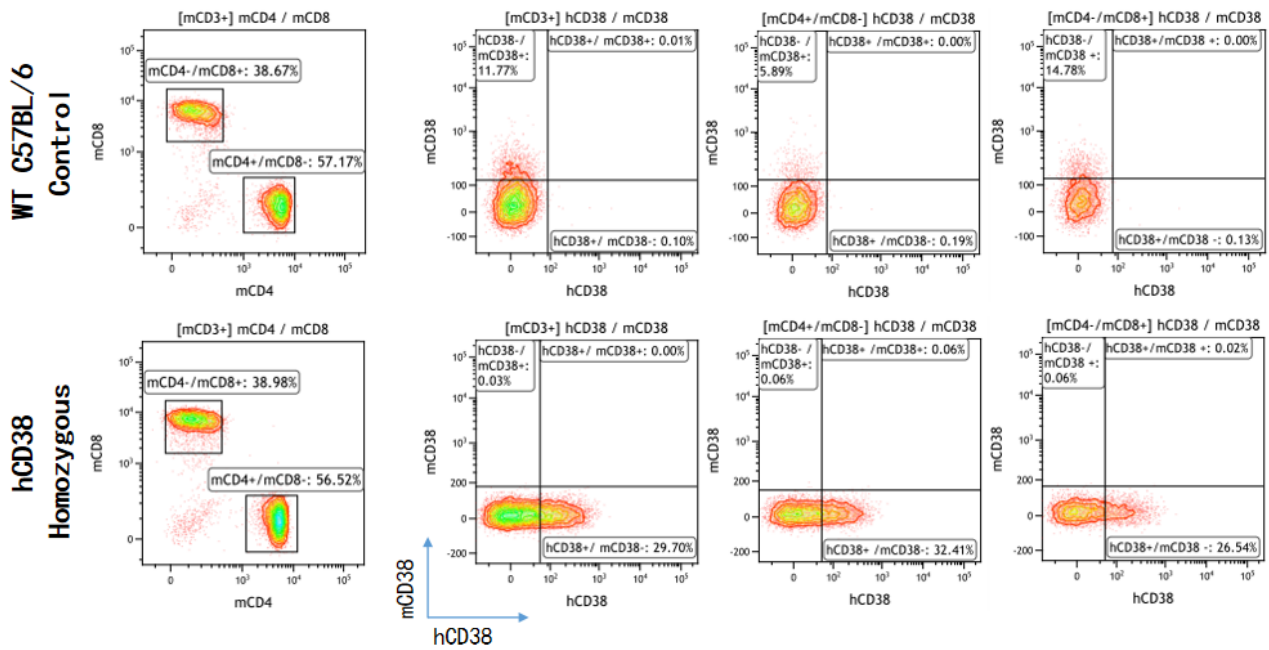


Fig3. m/hCD38 can be detected on blood-derived T cells in hCD38 knockin mice.

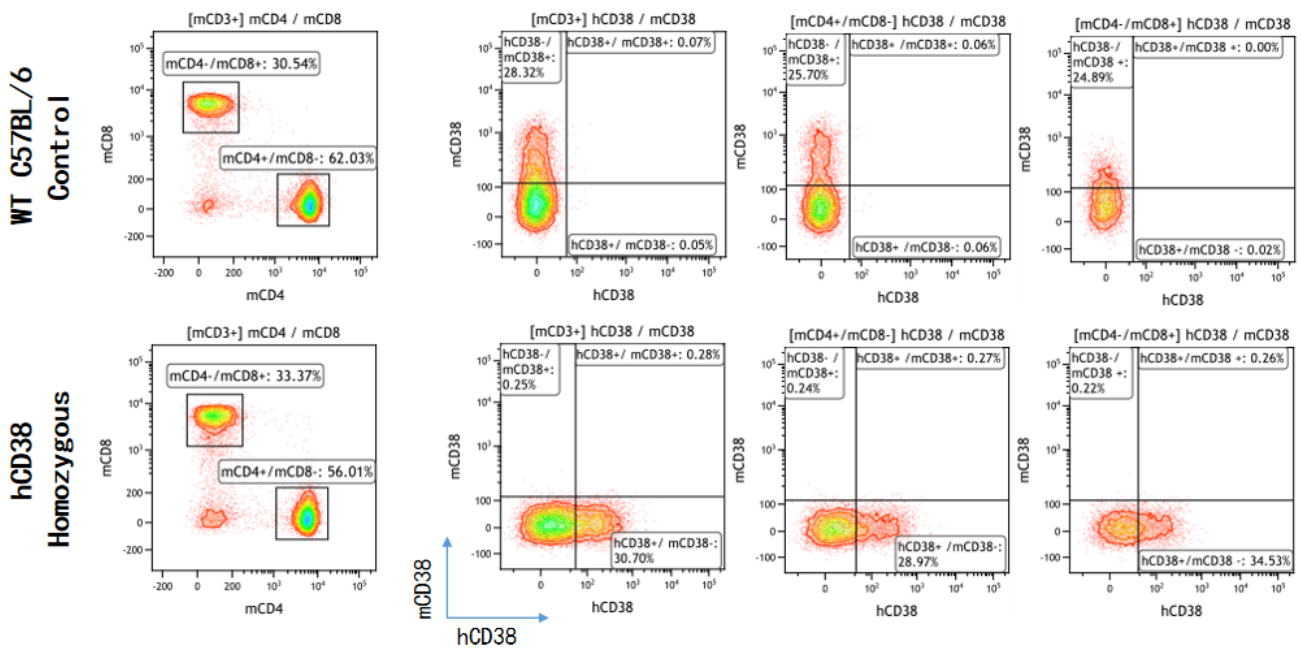


Fig4. m/hCD38 can be detected on spleen-derived T cells in hCD38 knockin mice.

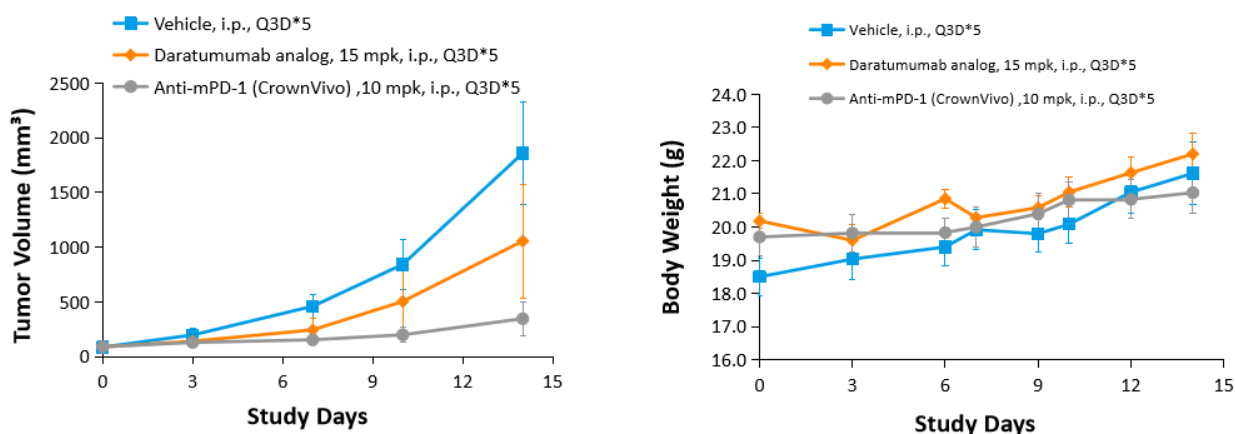


Fig5. *In vivo* anti-tumor effect of Daratumumab in hCD38 knockin mice. Homozygous humanized CD38 mice were inoculated with E.G7-OVA T lymphoma cells. The results showed: Daratumumab, a drug targeting human CD38, showed a very significant anti-tumor effect, demonstrating that the humanized CD38 mouse model is a good *in vivo* model for validating the efficacy of antibodies targeting human CD38. (In cooperation with Crownbio)

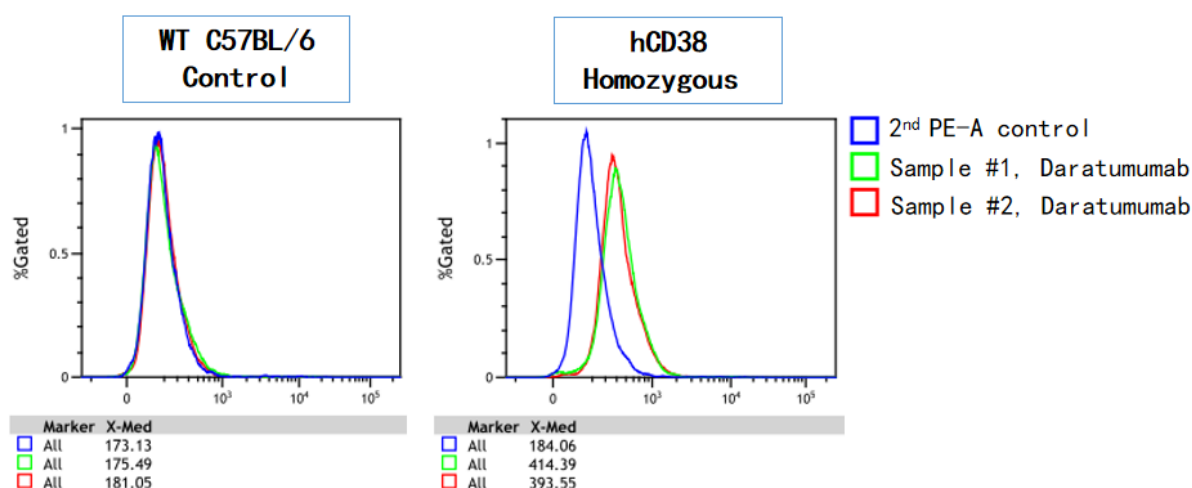


Fig6. Binding assay of Daratumumab to hCD38-derived B cells. (In cooperation with Crownbio)

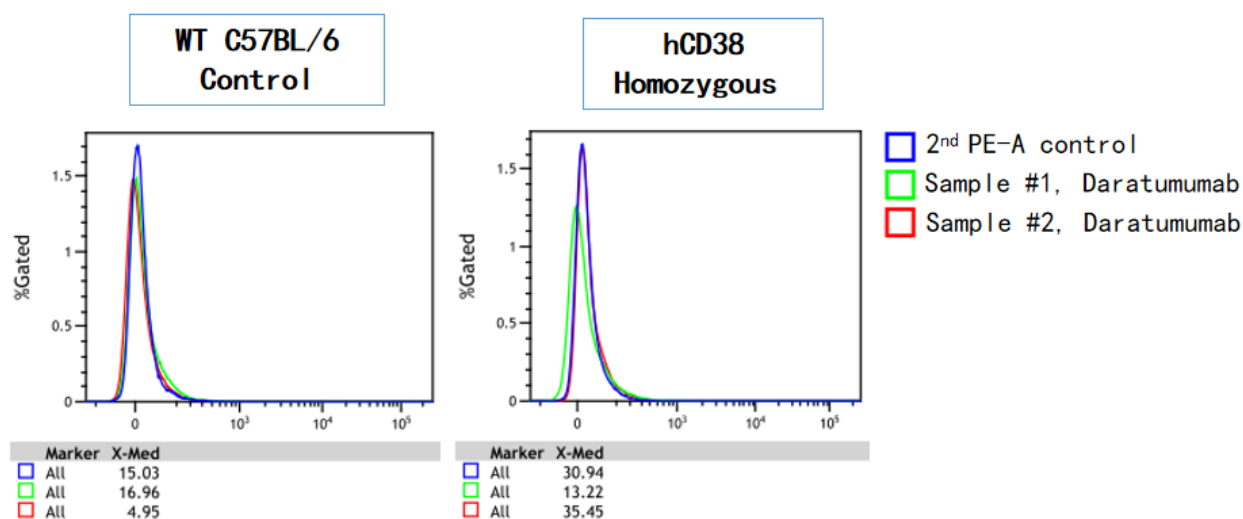


Fig7. Binding assay of Daratumumab to hCD38-derived T cells. (In cooperation with Crownbio)