

hADORA2A

Nomenclature	C57BL/6Smoc- <i>Adora2a</i> ^{tm1(hADORA2A)Smoc}
Cat. NO.	NM-HU-215061
Strain State	Repository Live

Gene Summary

Gene Symbol Adora2a	Synonyms	A2aR; A2AAR; AA2AR
	NCBI ID	11540
	MGI ID	99402
	Ensembl ID	ENSMUSG00000020178
	Human Ortholog	ADORA2A

Model Description

The endogenous mouse *Adora2a* gene was replaced by human ADORA2A gene.

*Literature published using this strain should indicate: hADORA2A mice (Cat. NO. NM-HU-215061) were purchased from Shanghai Model Organisms Center, Inc..

Validation Data

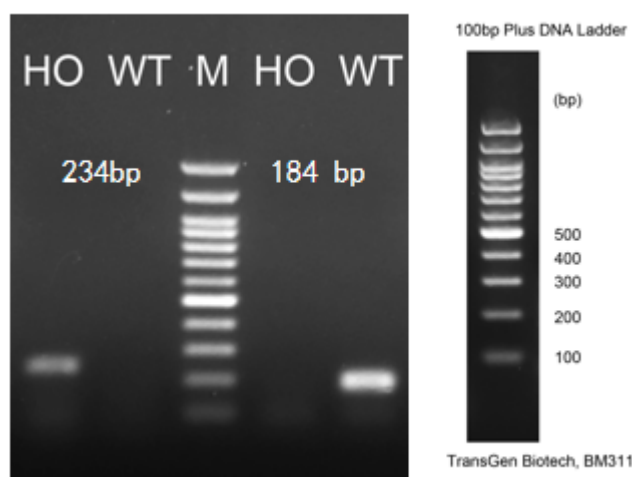


Fig1. Detection of ADORA2A expression in thymus and spleen by RT-PCR. Wild type: only one

band at 184 bp with primers F1/R1 (mAdora2a); Homozygous: only one band at 234 bp with primers F2/R2 (hADORA2A); Abbr. M, DNA marker; HO, homozygous; HE, heterozygous; WT, wild type.

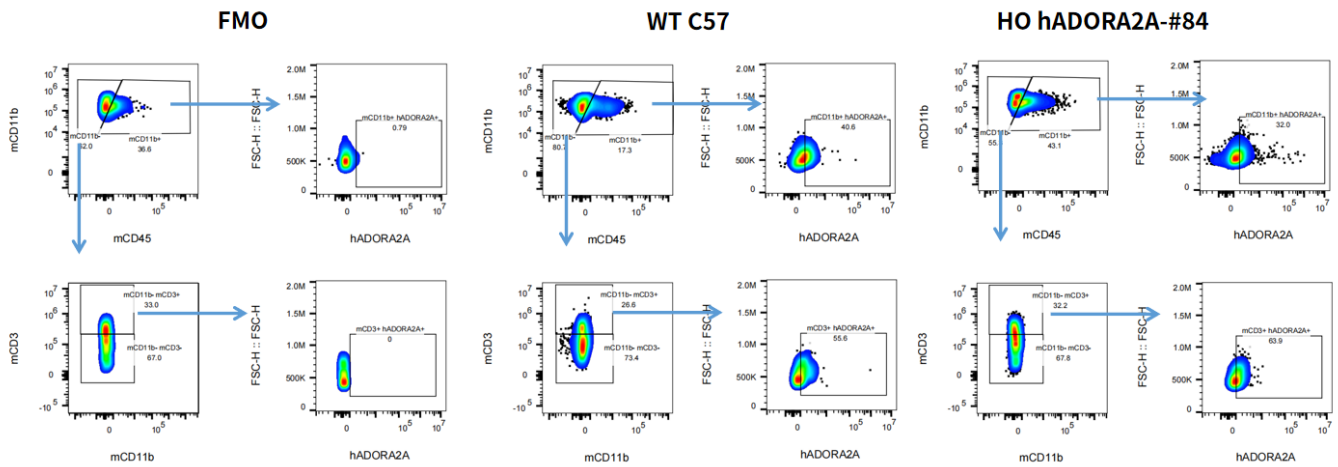


Fig2. Detection of hADORA2A expression in Myeloid cells and activated T cells in hADORA2A KI mice. Note. Splenocytes from C57BL/6 and homozygous hADORA2A mice were stimulated with anti-mCD3 antibody *in vitro*. The anti-human ADORA2A antibody cross-reacted with mADORA2A and humanized ADORA2A.

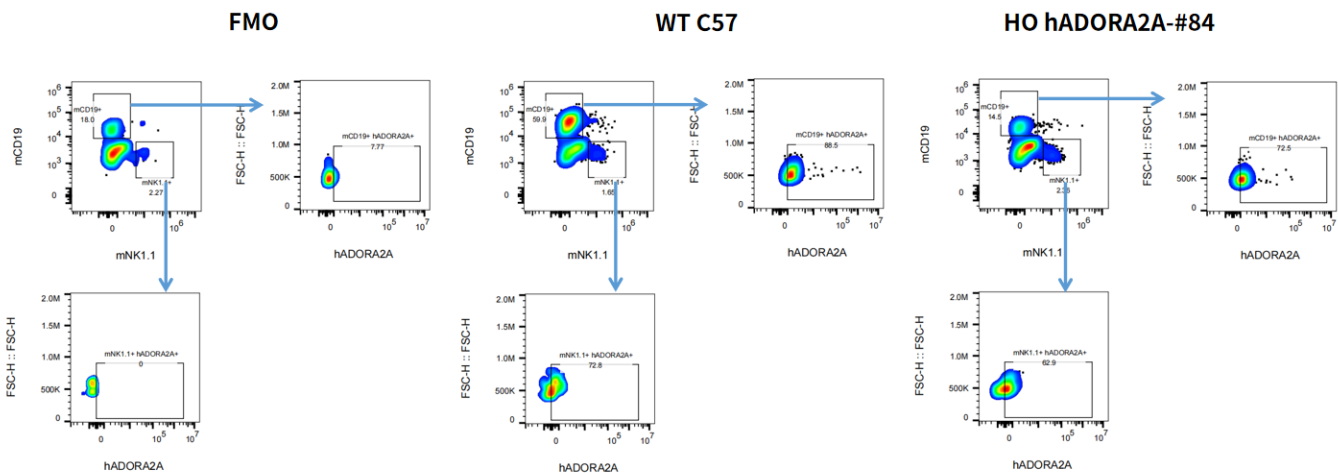


Fig3. Detection of hADORA2A expression in activated B cells and NK cells in hADORA2A KI mice. Note. Splenocytes from C57BL/6 and homozygous hADORA2A mice were stimulated with anti-mCD3 antibody *in vitro*. The anti-human ADORA2A antibody cross-reacted with mADORA2A and humanized ADORA2A.

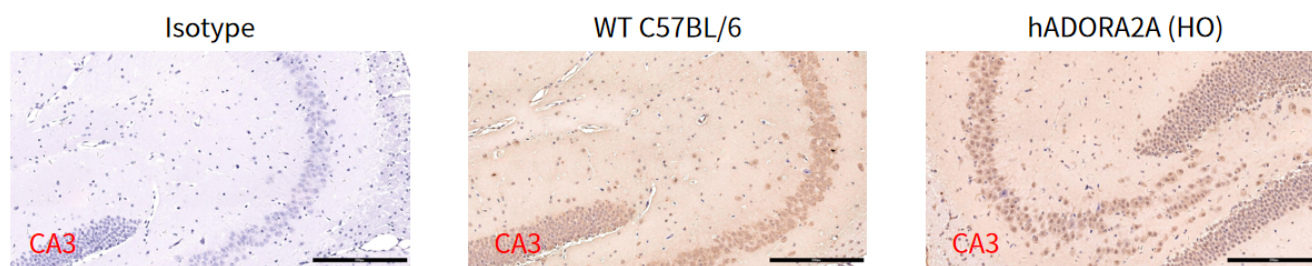


Fig4. Detection of mA2AR expression in hippocampus(CA3) in C57BL/6 mice by IHC. Abbr. HO/HO, homozygous; +/+, wild type. Note. The anti-mouse ADORA2A Antibody cross-reacted with mADORA2A and humanized ADORA2A.

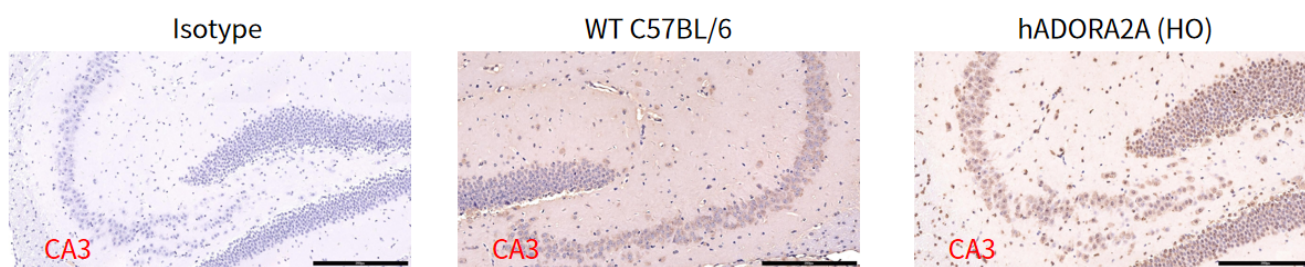


Fig5. Detection of hA2AR expression in hippocampus(CA3) in HO hADORA2A KI mice by IHC. Abbr. HO/HO, homozygous; +/+, wild type. Note. The anti-human ADORA2A Antibody cross-reacted with mADORA2A and humanized ADORA2A.