

Adora2a-KO

Nomenclature	C57BL/6Smoc- <i>Adora2a</i> ^{em1Smoc}
Cat. NO.	NM-KO-200018
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

Exon 3 of Adora2a gene was deleted to generate Adora2a knockout mice.

Research Application: Therapeutic antibody target

*Literature published using this strain should indicate: Adora2a-KO mice (Cat. NO. NM-KO-200018) were purchased from Shanghai Model Organisms Center, Inc..

Disease Connection

Myopia	Phenotype(s)	MGI:3622794
	Reference(s)	Zhou X, Huang Q, An J, Lu R, Qin X, Jiang L, Li Y, Wang J, Chen J, Qu J, Genetic deletion of the adenosine A2A receptor confers postnatal development of relative myopia in mice. Invest Ophthalmol Vis Sci. 2010 Sep;51(9):4362-70

Primary Pulmonary Hypertension	Phenotype(s)	MGI:5473699
	Reference(s)	Xu MH, Gong YS, Su MS, Dai ZY, Dai SS, Bao SZ, Li N, Zheng RY, He JC, Chen JF, Wang XT, Absence of the adenosine A2A receptor confers pulmonary arterial hypertension and increased pulmonary vascular remodeling in mice. <i>J Vasc Res.</i> 2011;48(2):171-83

Validation Data

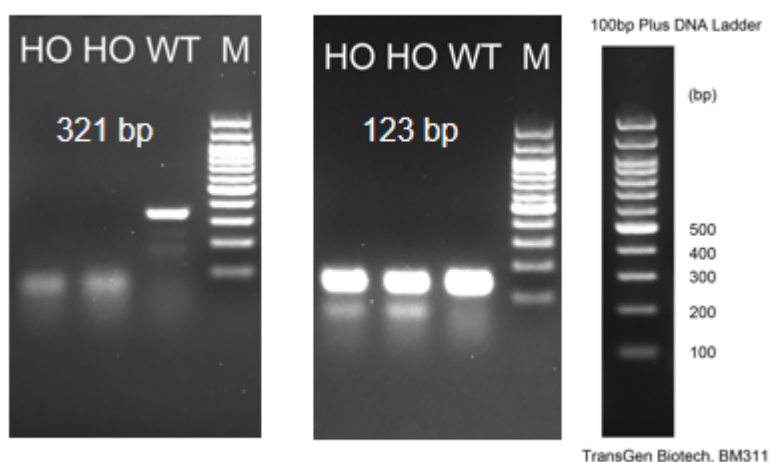


Fig1. Detection of *Adora2a*-ko expression in thymus and spleen by RT-PCR. Abbr. M, DNA marker; HO, homozygous; HE, heterozygous; WT, wild type.