

# MHCII/B2m-KO(NMG)

系統名	NOD.Cg-Prkdc <sup>scid</sup> Il2rg <sup>em15moc</sup> H2-Ab1 <sup>em15moc</sup> H2-Aa <sup>em15moc</sup> H2-Eb1 <sup>em15moc</sup> H2-Eb2 <sup>em15moc</sup> H2-Ea-ps <sup>em15moc</sup> B2m <sup>em15moc</sup>
SMOC番号	NM-NSG-014
維持形態	Repository Live

## 遺伝子の概要

Gene Symbol B2M	Synonyms	y-m11; beta2m; beta2-m
	NCBI ID	<a href="#">12010</a>
	MGI ID	<a href="#">88127</a>
	Ensembl ID	<a href="#">ENSMUSG00000060802</a>
	Human Ortholog	B2M
Gene Symbol MHCII(H2-Ab1; H2-Aa; H2-Eb1; H2-Eb2; H2-Ea)	Synonyms	IAb; Ia2; Ia-2; Abeta; H-2Ab; H2-Ab; Rmcs1; I-Abeta; A1845868 Ia1; H2Aa; Ia-1; H-2Aa; Aalpha; IAalpha; I-Aalpha Eb; Ia4; H2Eb; Ia-4; H-2Eb Ia5; Ia-5; H-2Eb2; Iebeta2; A130038H09Rik MHC-H2-Ea; Ia3; Ia-3; H-2Ea; A1323765;
	NCBI ID	<a href="#">14961</a> ; <a href="#">14960</a> ; <a href="#">14969</a> ; <a href="#">381091</a> ; <a href="#">100504404</a>
	MGI ID	<a href="#">103070</a> ; <a href="#">95895</a> ; <a href="#">95901</a> ; <a href="#">95902</a> ; <a href="#">95900</a>
	Ensembl ID	<a href="#">ENSMUSG00000073421</a> ; <a href="#">ENSMUSG00000036594</a> ; <a href="#">ENSMUSG00000060586</a> ; <a href="#">ENSMUSG00000067341</a> ; <a href="#">ENSMUSG00000036322</a>

## 説明

All sequences from the upstream of mouse H2-Ab1 gene exon 2 to the upstream of the H2-Ea-ps gene exon 1 were knocked out to obtain H2-Ab1、H2-Aa、H2-Eb1、H2-Eb2、H2-Ea-ps knockout mouse models. Also, B2m gene was knocked out. These MHC class I and II molecule-deficient mice were on the NMG genetic background and also lacked cell surface expression of both class II-A and class II-E MHC proteins and B2m of class I.

応用分野: Immunodeficiency, immune system, transplantation research

\*Literature published using this strain should indicate: MHCII/B2m-KO(NMG) mice (Cat. NO. NM-NSG-014) were purchased from Shanghai Model Organisms Center, Inc..

表現型データ

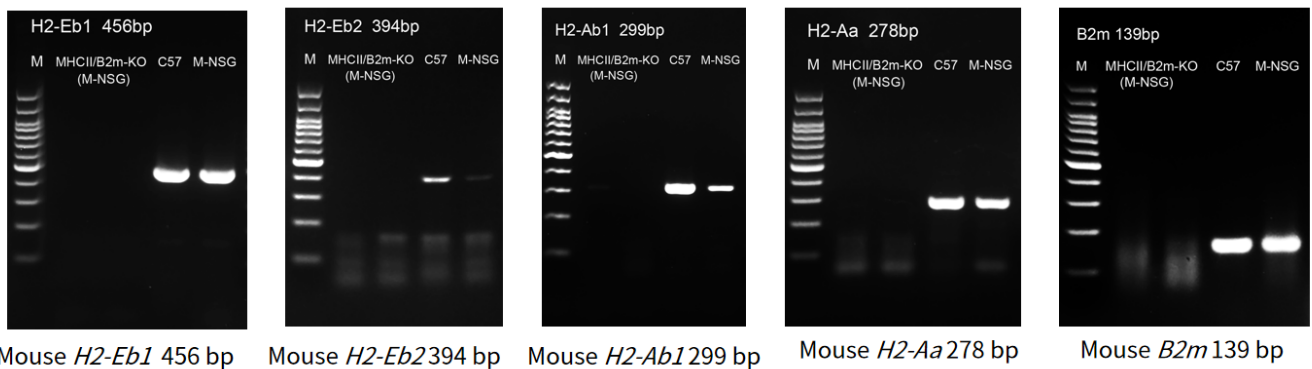


Fig1. Detection of *MHCII* and *B2m* expression in spleen in MHCII/B2M-dKO (M-NSG) mice by RT-PCR.

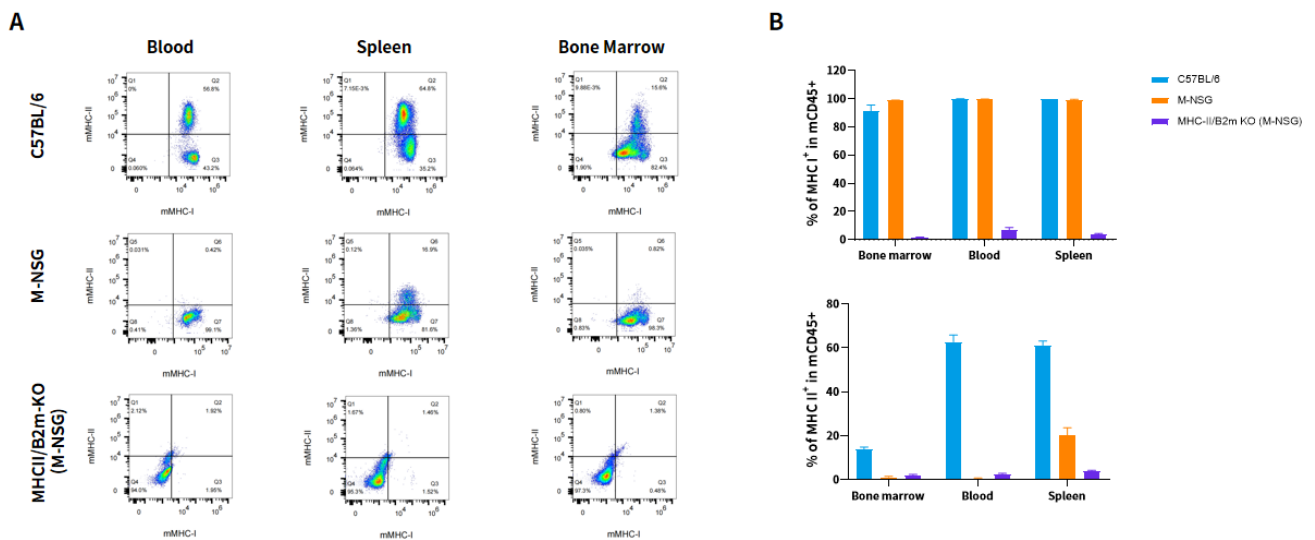


Fig2. Expression characterization of mouse MHC I and MHC II in MHCII/B2M-dKO (M-NSG) mice.