

## hHLA-DPA1\*03: 01

Nomenclature C57BL/6Smoc-*H2-Aa*<sup>em1 (hHLA-DPA1\*03: 01) /Smoc</sup>

**Cat. NO.** NM-HU-210009

**Strain State** Repository Live

## **Gene Summary**

Gene Symbol H2-Aa	Synonyms	Ia1; H2Aa; Ia-1; H-2Aa; Aalpha; IAalpha; I-Aalpha
	NCBI ID	<u>14960</u>
	MGI ID	<u>95895</u>
	Ensembl ID	ENSMUSG00000036594
	Human Ortholog	HLA-DQA1

## **Model Description**

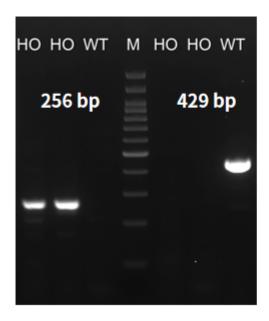
The endogenous mice H2-Aa gene was replaced by human HLA-DPA1\*03: 01 gene

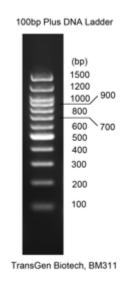
Research Application: inmmue therapy; drug screening

\*Literature published using this strain should indicate: hHLA-DPA1\*03: 01 mice (Cat. NO. NM-HU-210009) were purchased from Shanghai Model Organisms Center, Inc..

## **Validation Data**







**Fig.1 Detection of HLA-DPA1 expression in large Intestine by RT-PCR.** Wild type: one band at 429 bp with primers F1/R1 (mHla-dpa1); Homozygous: one band at 256 bp with primers F2/R2 (hHLA-DPA1). Abbr. M, DNA marker; HO, homozygous; WT, wild type.

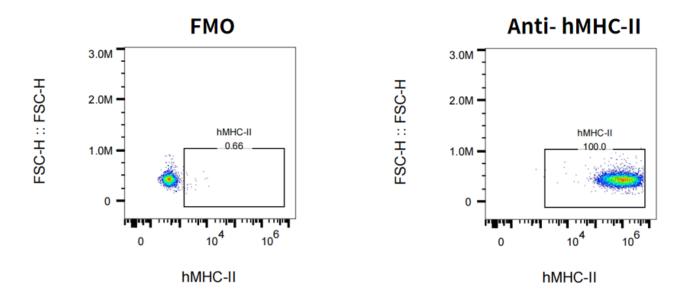
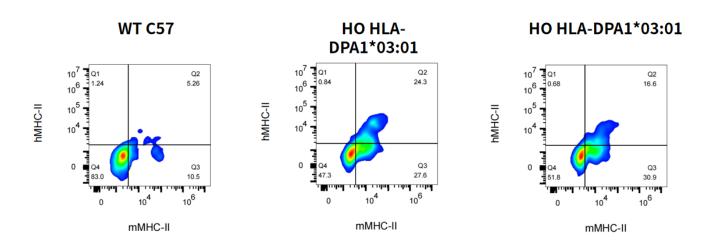


Fig2. Expression characterization of hHLA-DP on human PBMC.





**Fig3.** Expression characterization of HLA-DPA1\*03:01 on DCs in Blood in HLA-DPA1\*03:01 KI mice. Note: The anti-hMHC II antibody has been reported to react with a shared epitope of HLA-DR, HLA-DP, and HLA-DQ. The anti-mMHC II antibody reacts with a polymorphic determinant shared by the I-A<sup>b</sup>, I-A<sup>d</sup>, I-A<sup>d</sup>, I-E<sup>d</sup>, and I-E<sup>k</sup> MHC class II alloantigens from mice carrying H-2<sup>p,r,q,b,d,u</sup> haplotypes.