

Humanized CD73 (NT5E) Mouse

Strain Name: C57BL/6-*Nt5e*^{tm3(NT5E)Smoc}

Strain Background: C57BL/6

Cat. No. : IT-HU-200009

Validation data

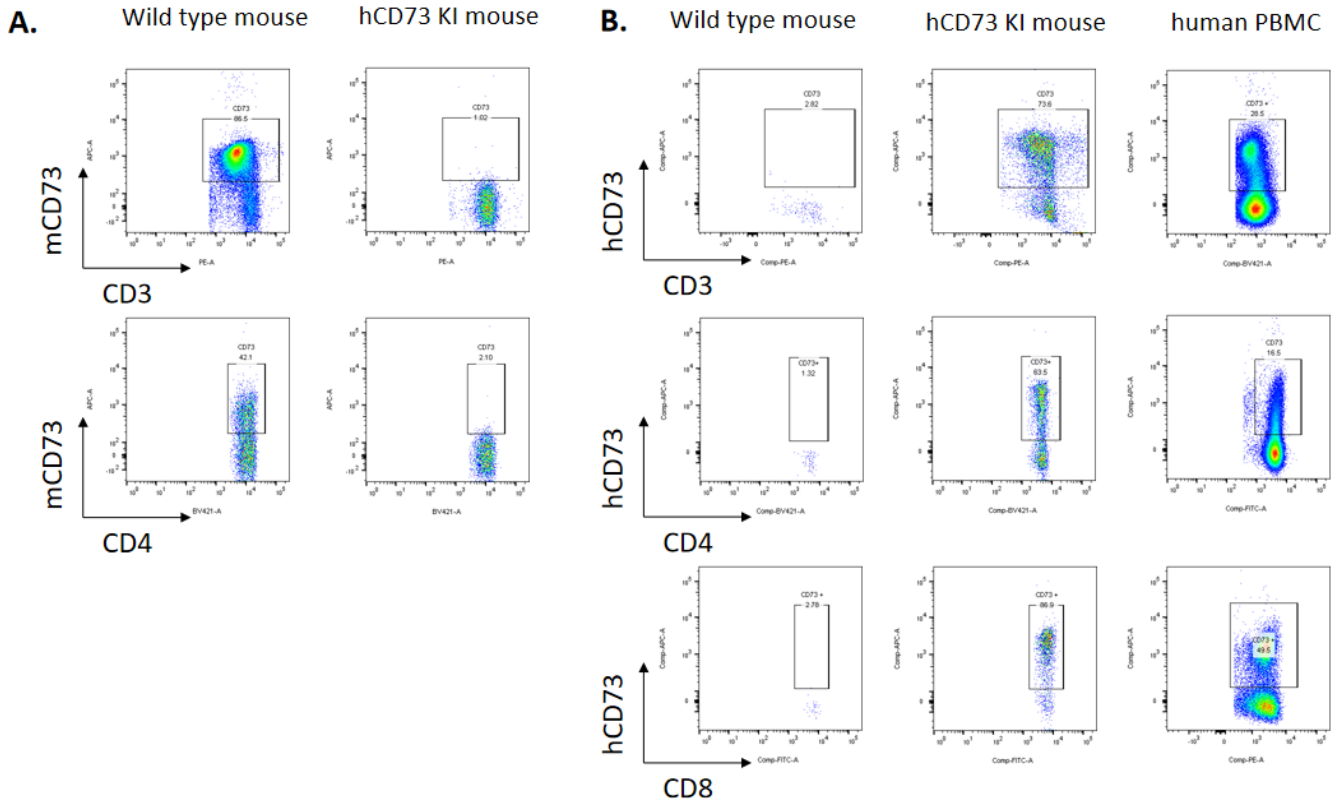


Fig.1 Expression of CD73 in the peripheral T cells collected from humanized CD73 mice were detected by FACS. The results showed that the expression of human CD73 can be detected in the peripheral T cells of humanized CD73 mice as same as in Hu-PBMC.

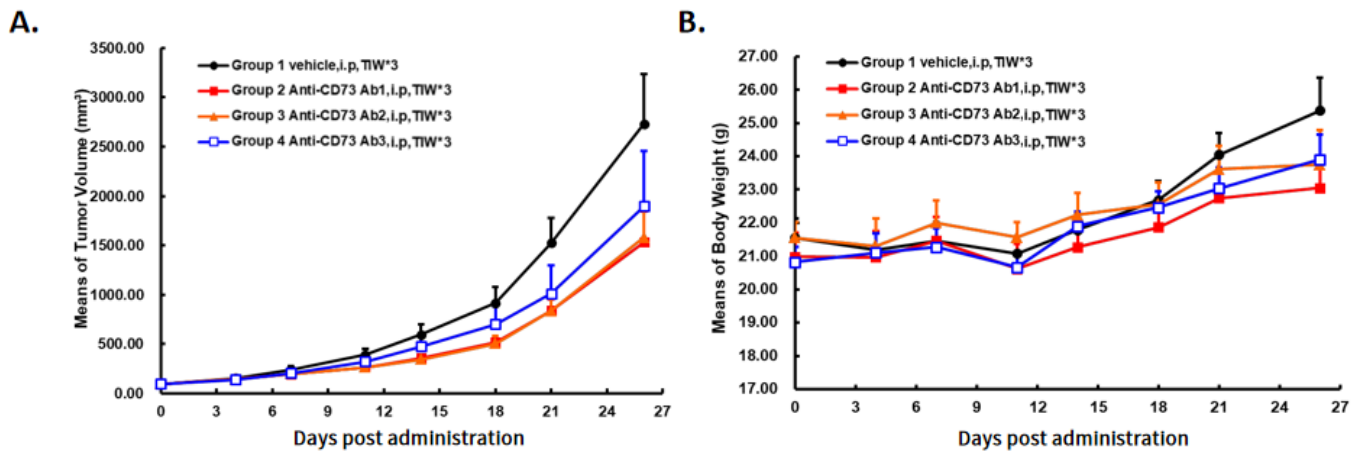


Fig.2 In vivo validation of anti-tumor efficacy in a MC38 tumor-bearing model of humanized CD73 mice. Homozygous humanized CD73 mice were inoculated with MC38 colon cancer cells (expressing human CD73 rather than murine CD73). Mice were grouped when the tumor size was approximately 100 mm³(n=6). Three human CD73 antibodies differently inhibited tumor growth, confirming that the CD73-HU mouse model is a powerful tool for in vivo CD73 antibody pharmacological efficacy study. A.Tumor average volume \pm SEM, B.Mice average weight \pm SEM.

Immune Checkpoint Humanized Mouse Models

Being recognized as a top scientific breakthrough in 2013, cancer immunotherapy is predicted to be one of the most promising research areas for improving patient outcomes. Although many immunotherapy breakthroughs may still lie ahead, important clinical advances have been made in the past few years for some of the deadliest cancers, reaffirming the potential of immunotherapy for many types of patients.

However, it is worth noting that drug candidates developed to interfere with human proteins may not comparably interact with their murine counterparts. It is therefore critical to develop humanized mouse models to enable in vivo efficacy evaluation of cancer immunotherapies.

Immune Checkpoint Humanized Mouse Models available at ingenious targeting laboratory

<i>4-1BB</i>	<i>PD-1/PD-L1</i>
<i>CD40</i>	<i>PD-1/TIGIT</i>
<i>CD47</i>	<i>PD-1/TIM3</i>
<i>CD73 (NT5E)</i>	<i>PD-L1</i>
<i>CTLA4 (C57BL/6)</i>	<i>PD-L1/CTLA4</i>
<i>CTLA4 (BALB/c)</i>	<i>PD-L1/LAG3</i>
<i>KDR</i>	<i>PD-L1/OX40</i>
<i>LAG3</i>	<i>PD-L1/TIGIT</i>
<i>OX40</i>	<i>SIRPA</i>
<i>OX40/CTLA4</i>	<i>SIRPA/CD47</i>
<i>PD-1 (C57BL/6)</i>	<i>TIGIT (C57BL/6)</i>
<i>PD-1 (BALB/c)</i>	<i>TIGIT (BALB/c)</i>
<i>PD-1/4-1BB</i>	<i>TIM3 (C57BL/6)</i>
<i>PD-1/CD40</i>	<i>TIM3 (BALB/c)</i>
<i>PD-1/CTLA4</i>	<i>TNFRSF1B</i>
<i>PD-1/LAG3</i>	<i>And more to come!</i>
<i>PD-1/OX40</i>	

To get to know more about these models, visit our website www.genetargeting.com
or contact our scientific experts at inquiry@genetargeting.com

About ingenious targeting laboratory

ingenious targeting laboratory (**ingenious**) has been a leading global provider of custom genetically modified mouse, rat, and rabbit models for over 20 years. As one of the very first mouse gene targeting companies, our trusted service is built on two decades' worth of successful animal model creation for investigators, organizations, and companies worldwide. Our models have been published in hundreds of journals including *Science*, *Nature*, and *Cell*, making us one of the most validated and respected production companies in the industry. We are excited to add catalog mouse models to our service repertoire by means of our collaboration with Shanghai Model Organisms Center (SMOC).

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