

hLAG3

品系全名	B6.129S- <i>Lag3</i> ^{tm1(hLAG3)Smoc}
目录号	NM-HU-00049
品系状态	胚胎冻存

基因信息

基因名 LAG3	基因曾用名	Ly66; CD223; LAG-3
	NCBI ID	16768
	MGI ID	106588
	Ensembl ID	ENSMUSG00000030124
	人类同源基因	LAG3

品系描述

将小鼠Lag3基因exon1-7替换为人源LAG3的exon1-7，从而表达人LAG3蛋白胞外段，取代小鼠内源Lag3蛋白胞外段的表达。

应用领域：免疫治疗；肿瘤研究；药物筛选

*使用本品系发表的文献需注明：hLAG3 mice (Cat. NO. NM-HU-00049) were purchased from Shanghai Model Organisms Center, Inc..

验证数据

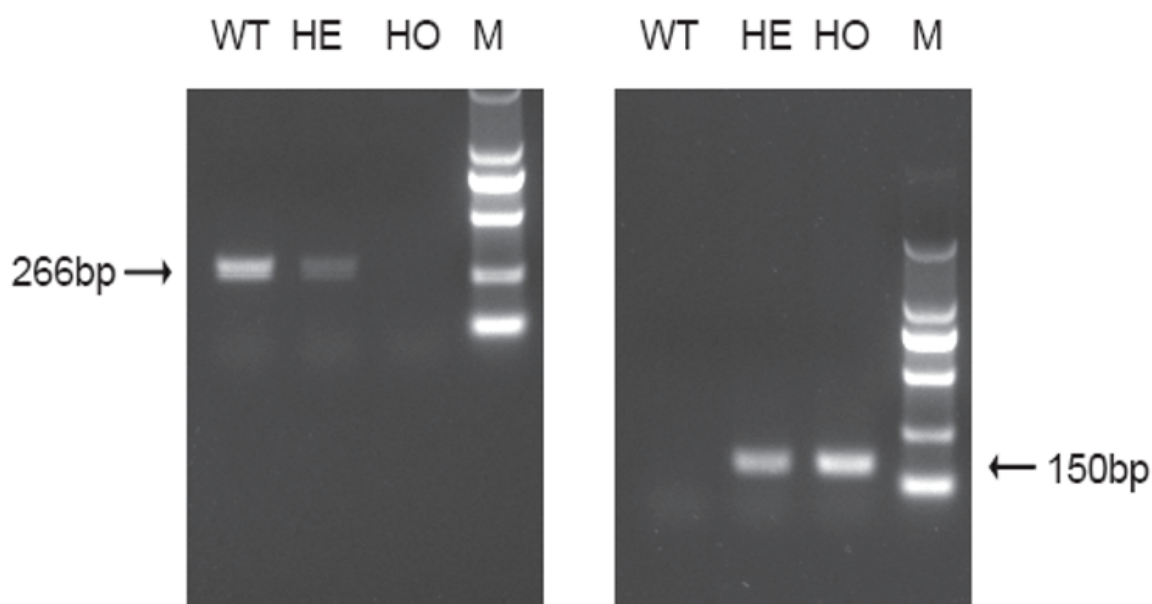


Fig1. Detection of LAG3 expression by RT-PCR.

Wild type: only one band at 266 bp with primers 5/6(mLAG3);

Heterozygous: one band at 266 bp with primers 5/6(mLAG3) and one band at 150 bp with primers 7/8(hLAG3);

Abbr. M, DNA marker; HO, homozygous; HE, heterozygous; WT, wild type.

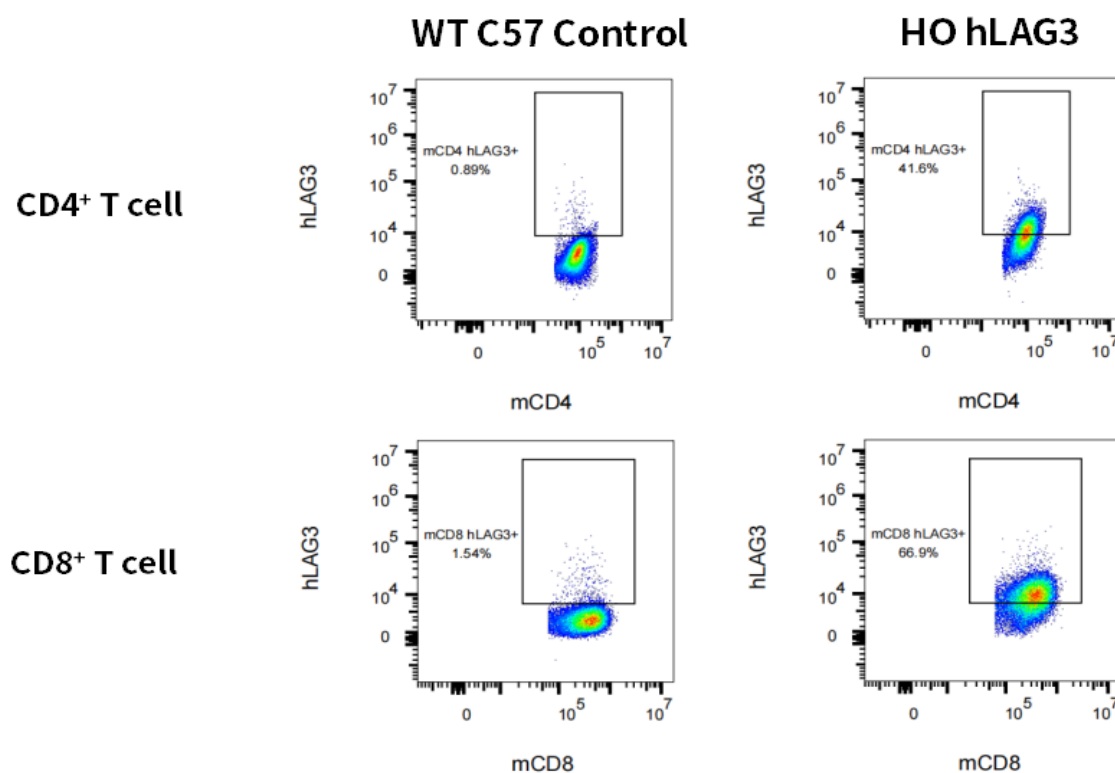


Fig2. Detection of hLAG3 expression on T cells in hLAG3 KI mice.

Note. Splenocytes from C57BL/6 and homozygous hLAG3 mice were stimulated with anti-mCD3 antibody in vitro.

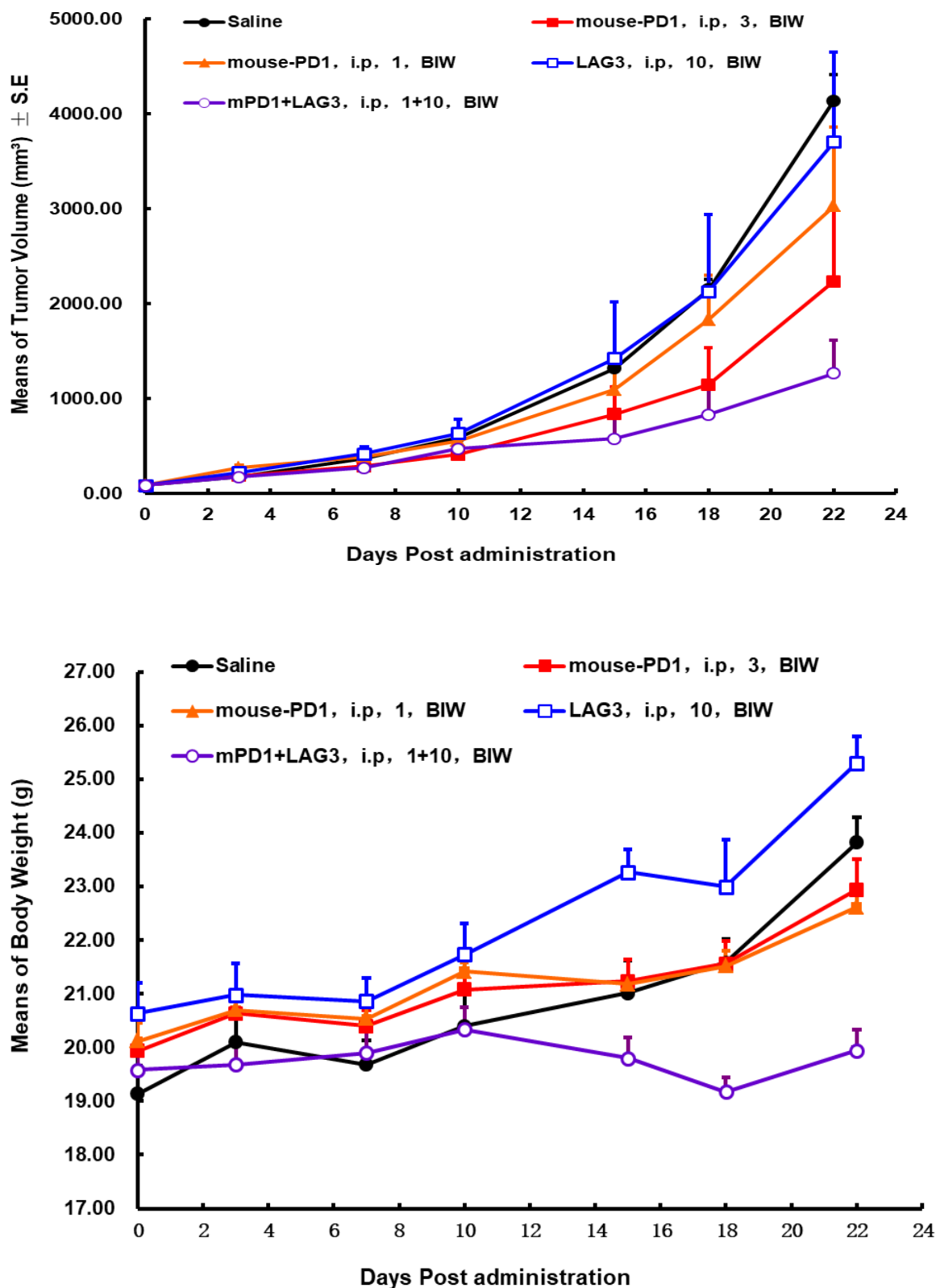


图3. LAG3 人源化小鼠MC38 荷瘤模型体内抗肿瘤药效验证。

LAG3 人源化纯合子小鼠接种MC38 结肠癌细胞系，肿瘤生长至约50mm³ 随机将动物分组(n=5)。结果显示：针对人的LAG3 抗体单独给药未见抗肿瘤效果，针对LAG3 抗体与PD1 抗体联合给药显示出显著的抗肿瘤效

果。

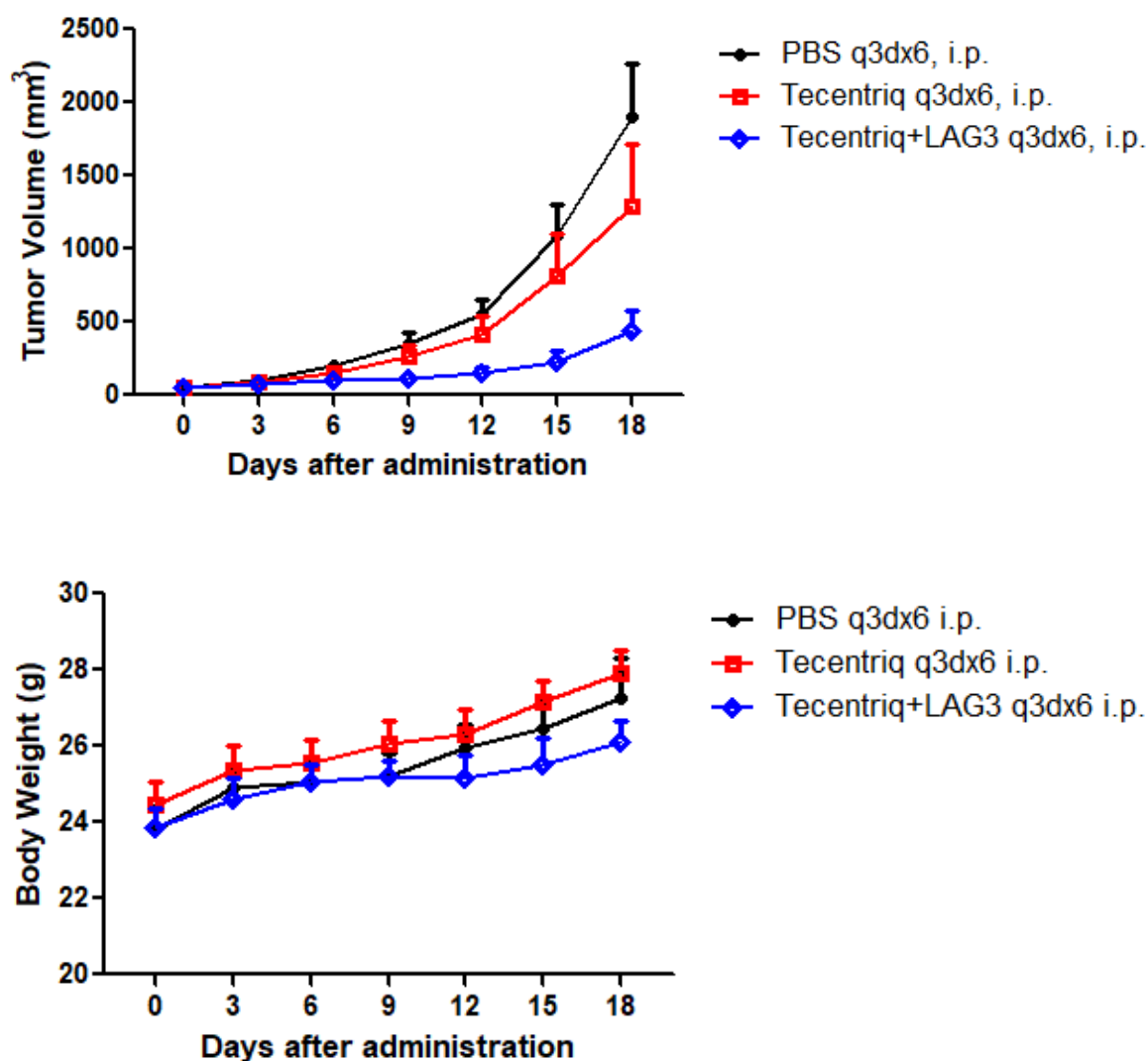


图4. LAG3 人源化小鼠MC38 荷瘤模型体内验证Tencentriq 和针对LAG3 抗体联合给药抗肿瘤药效。

LAG3 人源化纯合子小鼠接种MC38 结肠癌细胞系，肿瘤生长至70-80 mm³ 随机分组，3 天给药一次，连续给药6次。