BALB/c Nude

裸鼠 BALB/c Nude

品系全名	BALB/cAnSmoc-*Foxn1*^{nu}/Smoc
目录号	SM-014
品系状态	活体

基因信息

基因名 **Foxn1**	**基因曾用名**	nu Whn nude Fkh19 Hfh11 HFH-11 D11Bhm185e
	NCBI ID	15218
	MGI ID	102949
	Ensembl ID	ENSMUSG00000002057
	人类同源基因	FOXN1

品系描述

BALB/c 背景，携带Foxn1nu突变，胸腺发育不良，将引发T细胞缺失；同时对胸腺依赖性抗原的反应存在一定局限性，会引发B细胞功能受损；而NK细胞、巨噬细胞、抗原递呈细胞较为正常，补体活性正常；毛发发育不良导致毛发异常生长，大部分毛发不能突出表面，形成裸鼠表型。

*使用本品系发表的文献需注明: BALB/c Nude mice (Cat. NO. SM-014) were purchased from Shanghai Model Organisms Center, Inc..

验证数据

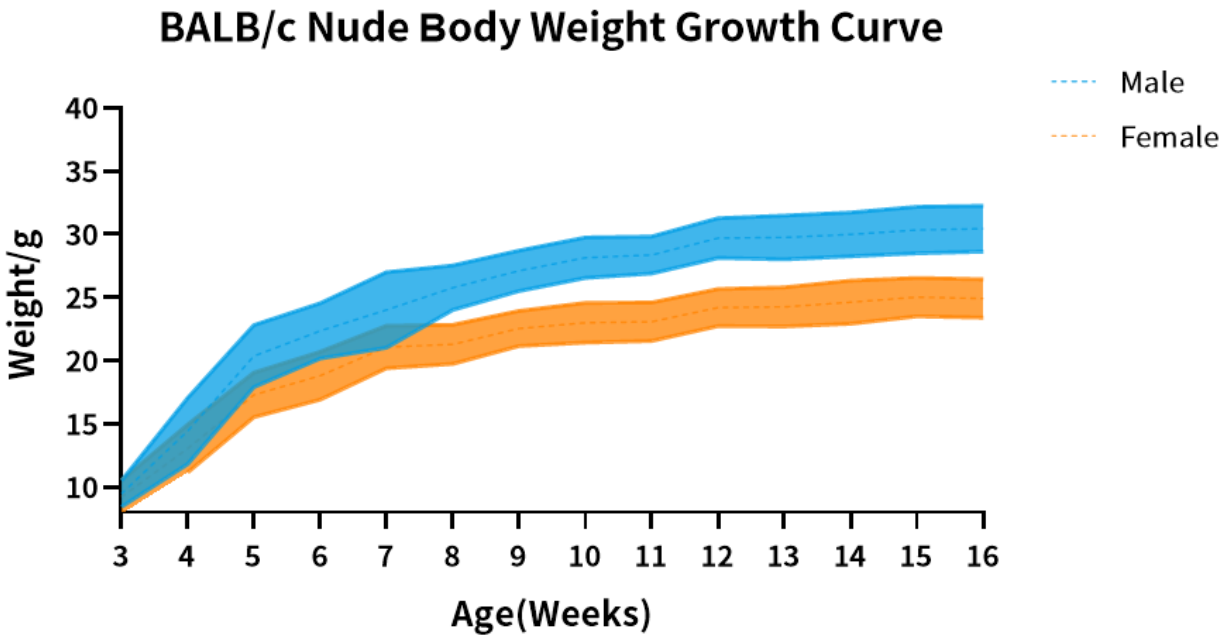

Fig1. Body weight growth curve of BALB/c Nude (n=30)

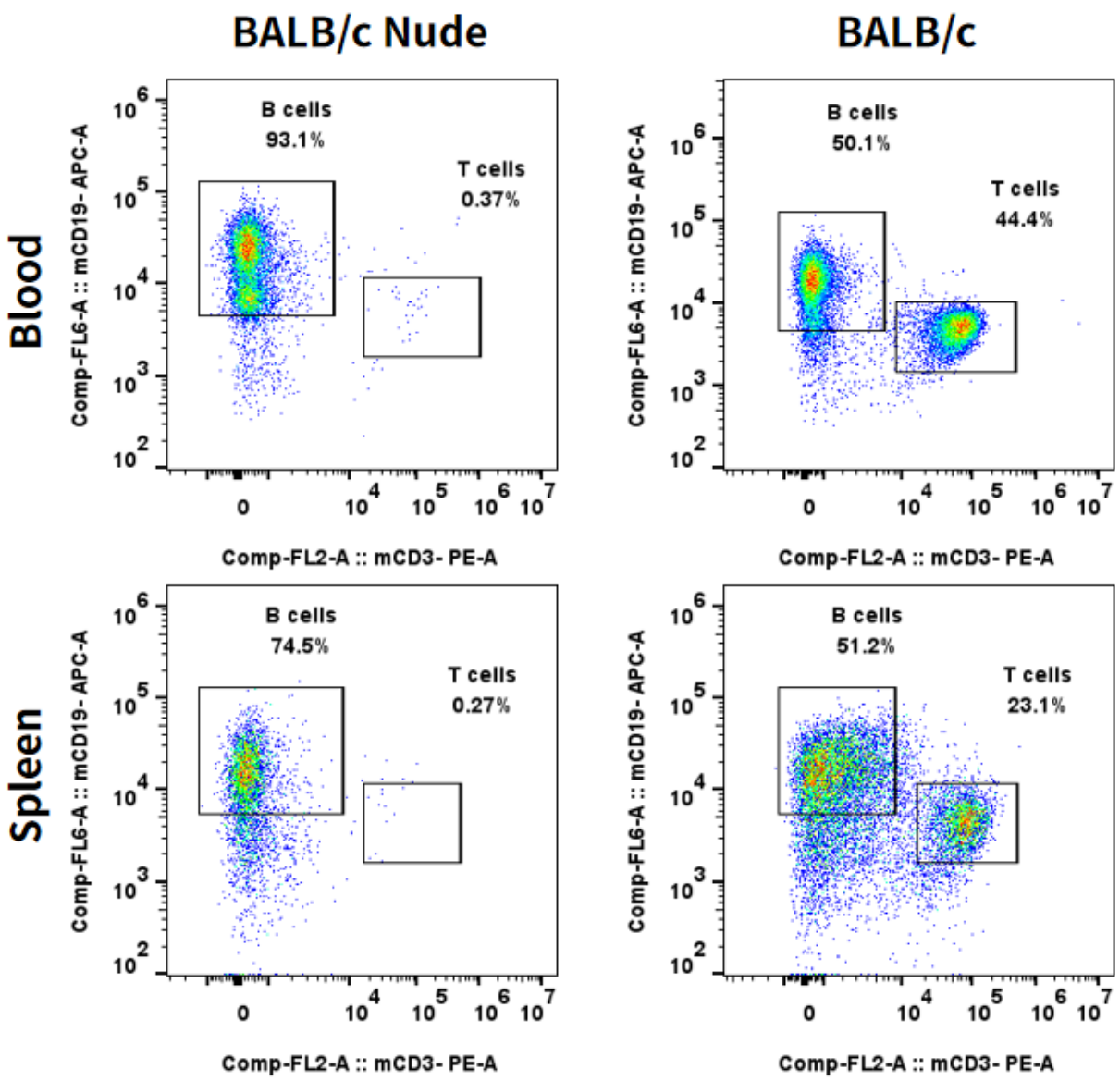

Fig2. Complete deletion of T, B cells of BALB/c Nude.

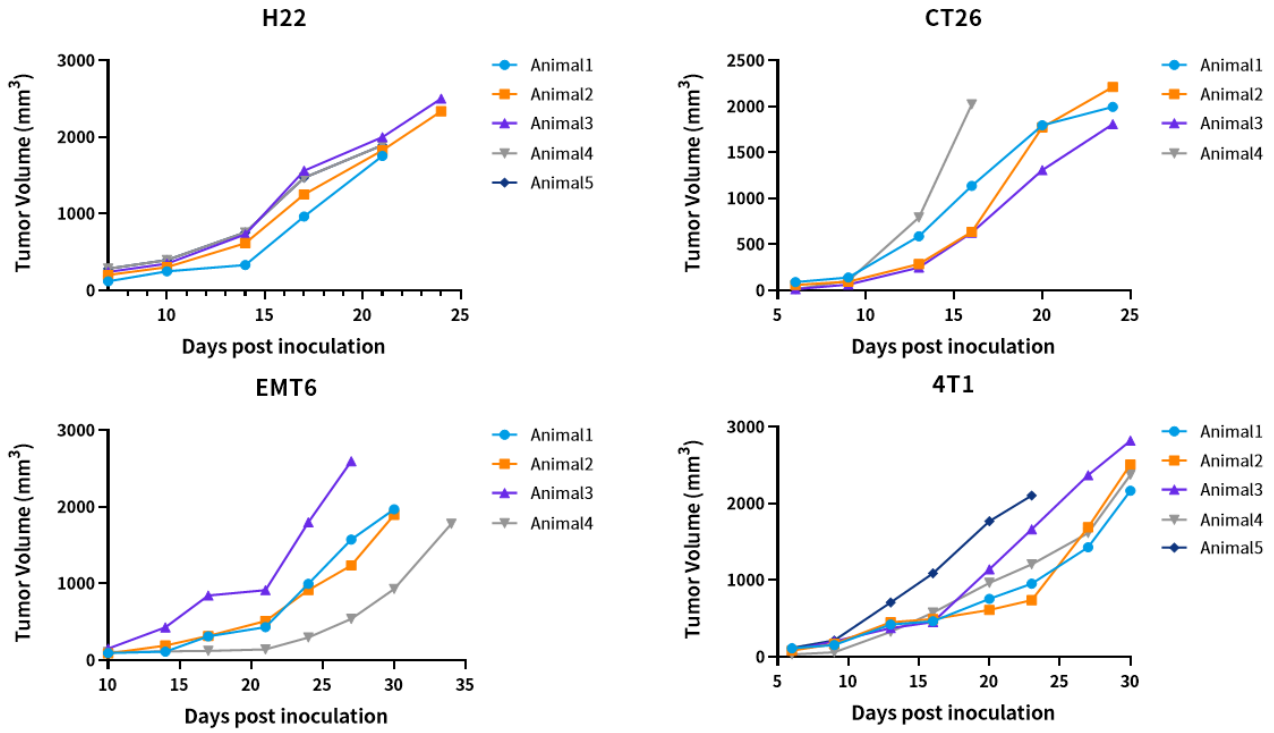

Fig3. Subcutaneous xenograft tumor growth in BALB/c Nude.

Parameter	Units	BALB/c Nude; Male	BALB/c Nude; Female
		8-10 weeks; n=10	8-10 weeks; n=10
WBC	10^3 cells/μL	4.31±0.62	3.58±0.41
RBC	10^6 cells/μL	10.38±0.24	10.33±0.10
HGB	g/dL	16.31±0.33	16.56±0.17
HCT	%	49.14±0.99	49.72±0.54
MCV	fL	47.37±0.29	48.14±0.32
MCH	pg	15.72±0.08	16.04±0.07
MCHC	g/dL	33.19±0.12	33.32±0.13
PLT	10^6 cells/μL	1610.89±67.43	1366.60±58.87
RDW-SD	fL	29.53±0.18	31.15±0.27
RDW-CV	%	21.36±0.32	21.76±0.17
PDW	fL	10.58±0.38	10.43±0.31
MPV	fL	8.09±0.15	7.85±0.09
P-LCR	%	15.24±1.02	13.58±0.69
PCT	%	1.30±0.05	1.07±0.06
NEUT#	10^3 cells/μL	1.16±0.18	0.88±0.14
LYMPH#	10^3 cells/μL	2.82±0.41	2.21±0.25
MONO#	10^3 cells/μL	0.24±0.05	0.40±0.13
EO#	10^3 cells/μL	0.07±0.03	0.06±0.03
BASO#	10^3 cells/μL	0.02±0.01	0.06±0.03
NEUT%	%	27.41±1.87	24.88±2.80
LYMPH%	%	65.15±1.96	62.29±2.16
MONO%	%	5.34±0.68	10.29±2.02
EO%(%)	%	1.65±0.45	1.42±0.64
BASO%	%	0.45±0.28	0.74±0.45
RET#	10^6 cells/μL	0.44±0.03	0.40±0.03
RET%	%	4.29±0.32	3.84±0.29
LFR(%)	%	49.37±1.29	50.77±1.94
MFR(%)	%	18.83±0.41	18.54±0.55
HFR(%)	%	31.80±1.00	30.69±1.62
IRF(%)	%	50.63±1.29	49.23±1.94

Fig4. Blood routine tests in BALB/c Nude.

Parameter	Units	BALB/c Nude; Male	BALB/c Nude; Female
		8-10 weeks; n=10	8-10 weeks; n=10
TP	g/L	55.30±2.10	56.80±1.16
ALB	g/L	25.00±0.91	25.20±0.61
ALP	U/L	569.10±21.37	619.60±17.17
ALT	U/L	105.60±16.13	75.60±18.24
AST	U/L	259.30±63.48	187.60±54.53
T-BIL	μmol/L	2.20±0.25	1.56±0.22
D-BIL	μmol/L	3.11±0.41	2.70±0.61
CHE	U/L	4512.10±296.95	8047.20±244.23
CRE	μmol/L	15.63±0.51	15.68±0.29
BUN	mmol/L	9.12±0.39	10.48±0.39
UA	μmol/L	258.36±27.08	230.80±33.04
TCHO	mmol/L	2.85±0.12	2.53±0.07
TG	mmol/L	1.36±0.11	1.27±0.09
HDL	mmol/L	2.69±0.16	2.07±0.21
LDL	mmol/L	1.53±0.04	1.56±0.01
NEFA	mmol/L	1.06±0.05	1.04±0.09
LDH	U/L	667.20±117.13	592.40±154.07
CK	U/L	1251.30±471.32	1089.60±604.72
Hcy	μmol/L	6.64±0.40	6.92±0.43
GLU	mmol/L	15.30±1.07	14.78±1.46
Ca	mmol/L	3.23±0.11	3.20±0.06
IP	mmol/L	3.68±0.13	3.84±0.17
Fe	μmol/L	55.89±1.99	47.92±1.84
CRP	mg/L	1.33±0.34	1.45±0.40

Fig5. Blood biochemistry in BALB/c Nude.

Table 1. BALB/c Nude xenograft cell lines

Cancer Type	Cell Lines (100+)
Breast	MCF-7/5C, MCF-7/TAM2, MCF-7/RAL2, MCF-7/RAL1, MCF-7/E2, MCF-7, MDA-MB-231, T47D, BT-20, MDA-MB-435, MCF10A, MDA-MB-435/LCC6, MCF-7LU, M4A4-LM, SUM149PT...
Lung	HCC827, NCI-H358, A549, NCI-H1299, LT391-06, SK-MES-1, Calu-3, NCI-H460, NCI-H2126, NCI-H1975, NYH, NCI-H727, GLC19...
Liver	Hep3B2.1-7, HepG2...
Prostate	LNCaP, VCaP, PC-3, LNCaPC4-2B, LAPC-4, DU145, PC-82, PC-310, PC-295, PC346-DCC-K, PC3-MM2, PC-346C...
Melanoma	SK-MEL-31, SK-MEL-28, SK-MEL-5, A-375, WM1617, WM9, G-361...
Colon	T84, HT-29, HCT116, LS174T, SW620...
Bladder	KU-19-19, URO-MSC24, URO-ASC, UROtsa, URO-MSC52, RT4...
Ovarian	TOV-21G, TOV-112D, A2780, OVCAR-3, A2780/CP70, A2780cis...
Pancreatic	BxPC-3, Capan-1, MIAPaCa-2, PANC-1, L3.6pl, HPAF-II...
Glioma	BT-40, A-172...
Kidney	786-O...
Carcinoma	A-498...
Cervical	HeLa...
Myeloma	INA-6...
Stomach	MKN28, NCI-N87, MKN45...
Adenocarcinoma	KB-C2, KB-3-1...
Others	U-251MG, Caki-1, AN3CA, HT-1080...