## **BALB/c Nude**

系統名	BALB/cAnSmoc- <i>Foxn1</i> <sup>nu</sup> /Smoc
SMOC番号	SM-014
維持形態	Repository Live

## 遺伝子の概要

Gene Symbol Foxn1	Synonyms	nu; Whn; nude; Fkh19; Hfh11; HFH-11; D11Bhm185e
	NCBI ID	<u>15218</u>
	MGI ID	<u>102949</u>
	Ensembl ID	ENSMUSG0000002057

## 説明

This strain carries a Foxn1nu mutation on the BALB/c background which will lead to T cell deletion. At the same time, the response to thymus-dependent antigens is limited, resulting in impaired B cell function while NK cells, macrophages, and antigen-presenting cells function normally. The complement activity is normal as well. Hair dysplasia causes aberrant hair growth in which the majority of the hair cannot protrude from the surface, resulting in a naked mouse phenotype.

\*Literature published using this strain should indicate: BALB/c Nude mice (Cat. NO. SM-014) were purchased from Shanghai Model Organisms Center, Inc..

## 表現型デロタ



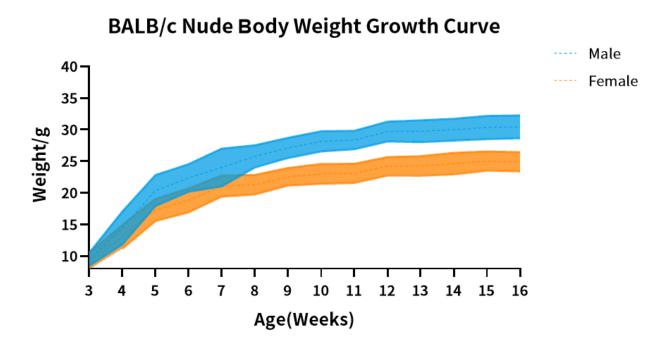


Fig1. Body weight growth curve of BALB/c Nude (n=30)



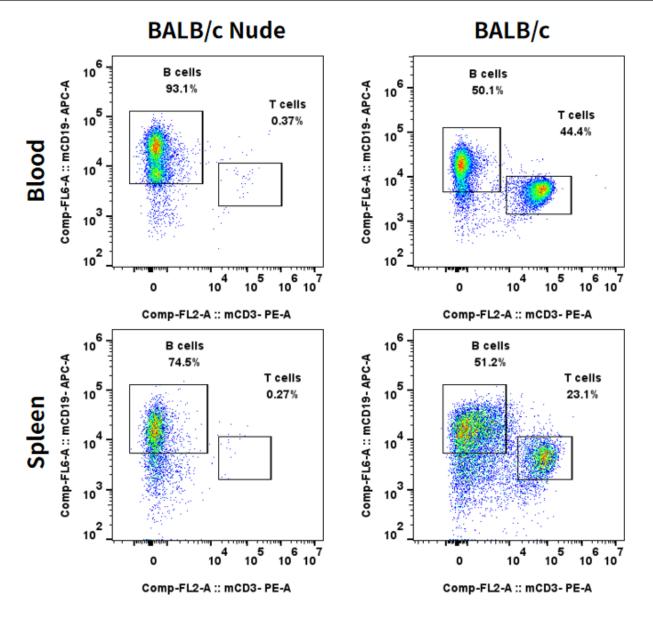


Fig2. Complete deletion of T, B cells of BALB/c Nude.



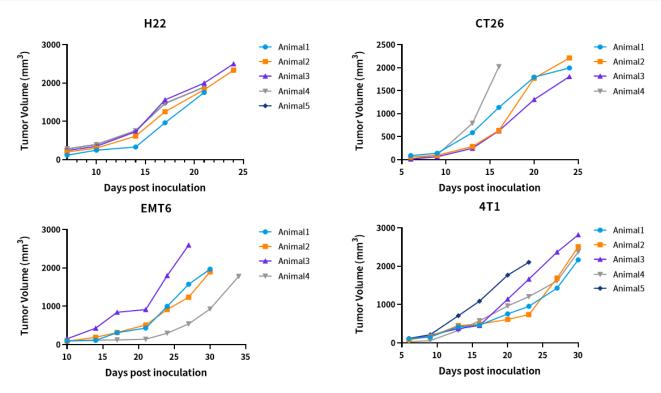


Fig3. Subcutaneous xenograft tumor growth in BALB/c Nude.



		BALB/c Nude; Male	BALB/c Nude; Female
Parameter	Units	8-10 weeks; n=10	8-10 weeks; n=10
WBC	10 <sup>3</sup> cells/µL	4.31±0.62	3.58±0.41
RBC	10 <sup>6</sup> cells/µL	10.38±0.24	10.33±0.10
HGB	g/dL	16.31±0.33	16.56±0.17
нст	%	49.14±0.99	49.72±0.54
MCV	fL	47.37±0.29	48.14±0.32
мсн	pg	15.72±0.08	16.04±0.07
мснс	g/dL	33.19±0.12	33.32±0.13
PLT	10 <sup>6</sup> 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 <sup>3</sup> cells/µL	1.16±0.18	0.88±0.14
LYMPH#	10 <sup>3</sup> cells/µL	2.82±0.41	2.21±0.25
MONO#	10 <sup>3</sup> cells/µL	0.24±0.05	0.40±0.13
EO#	10 <sup>3</sup> cells/µL	0.07±0.03	0.06±0.03
BASO#	10 <sup>3</sup> 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 <sup>6</sup> 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.



		BALB/c Nude; Male	BALB/c Nude; Female
Parameter	Units	8-10 weeks; n=10	8-10 weeks; n=10
ТР	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
тсно	mmol/L	2.85±0.12	2.53±0.07
TG	mmol/L	1.38±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
СК	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±1.48
Са	mmol/L	3.23±0.11	3.20±0.08
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/LCC 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	Нер3В2.1-7, НерG2	
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	