

# hFcRn(SD)

## 遺伝子の概要

### 説明

The endogenous rat Fcgrt gene was replaced by human FCGRT gene.

**応用分野:** cancer research, Immunotherapy, drug screening

\*Literature published using this strain should indicate: hFcRn(SD) rats (Cat. NO. NR-HU-200002) were purchased from Shanghai Model Organisms Center, Inc..

### 表現型データ

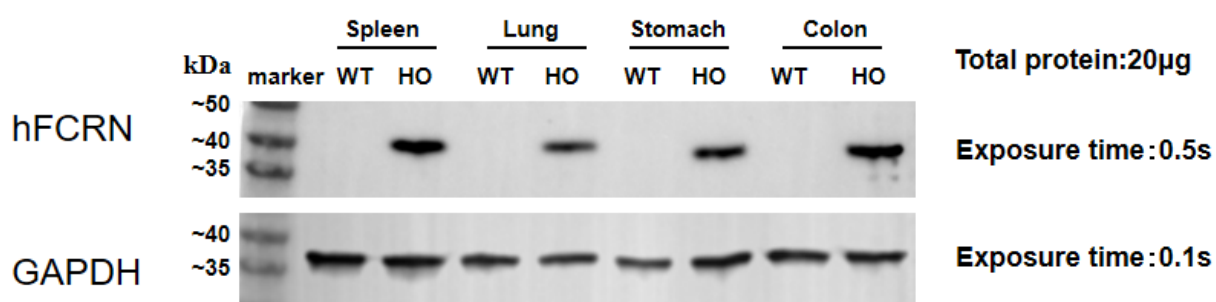


Fig1. Expression characterization of hFCRN in hFCRN knockin rat by Western blot.

Abbr. HO, homozygous; WT, wild type.

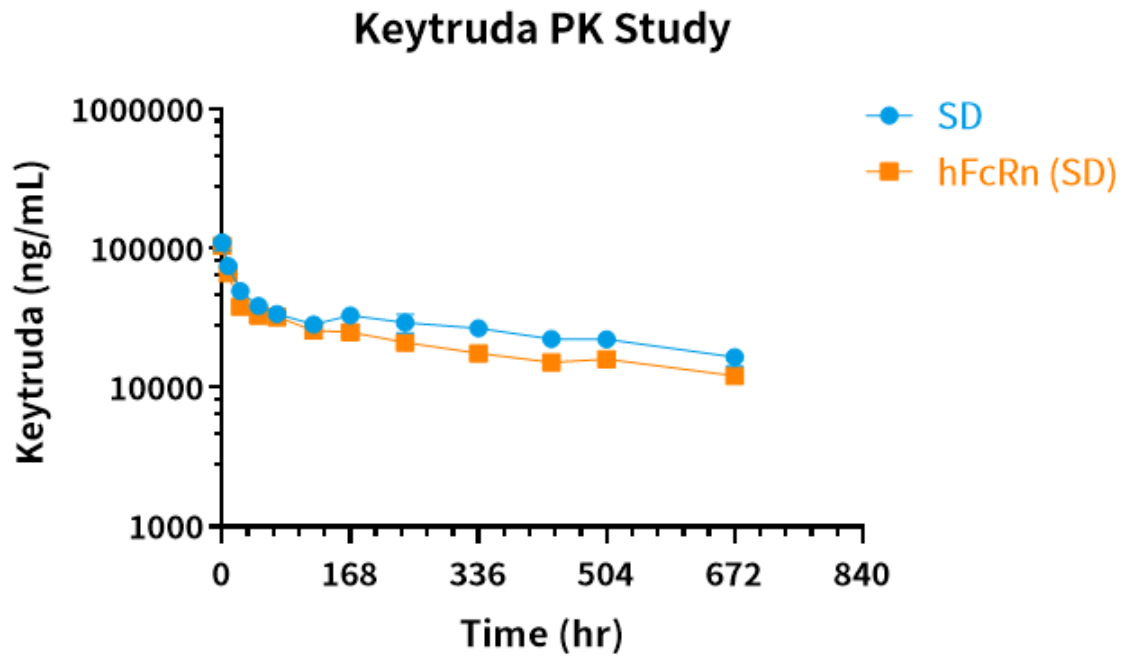


Fig2. PK study of Keytruda in hFCRN rat.

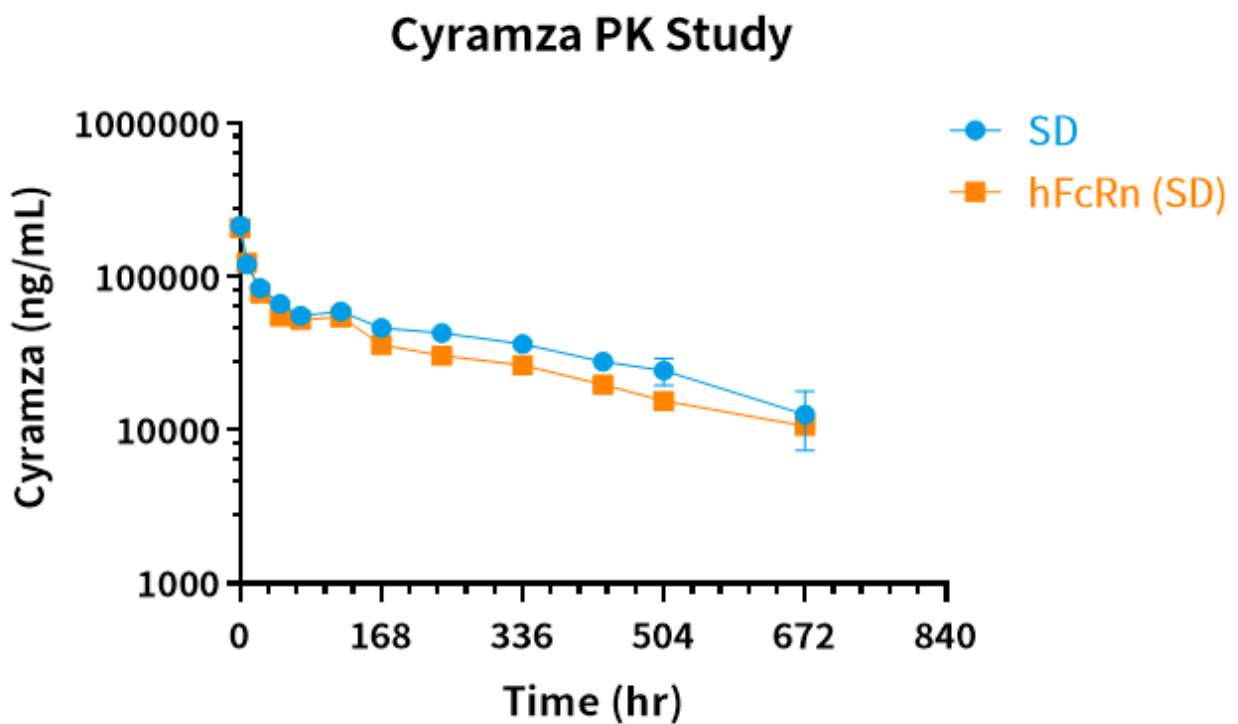
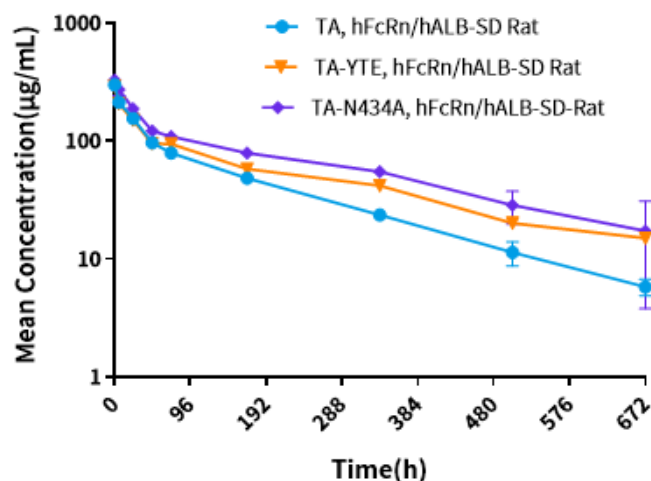


Fig3. PK study of Cyramza in hFCRN rat.

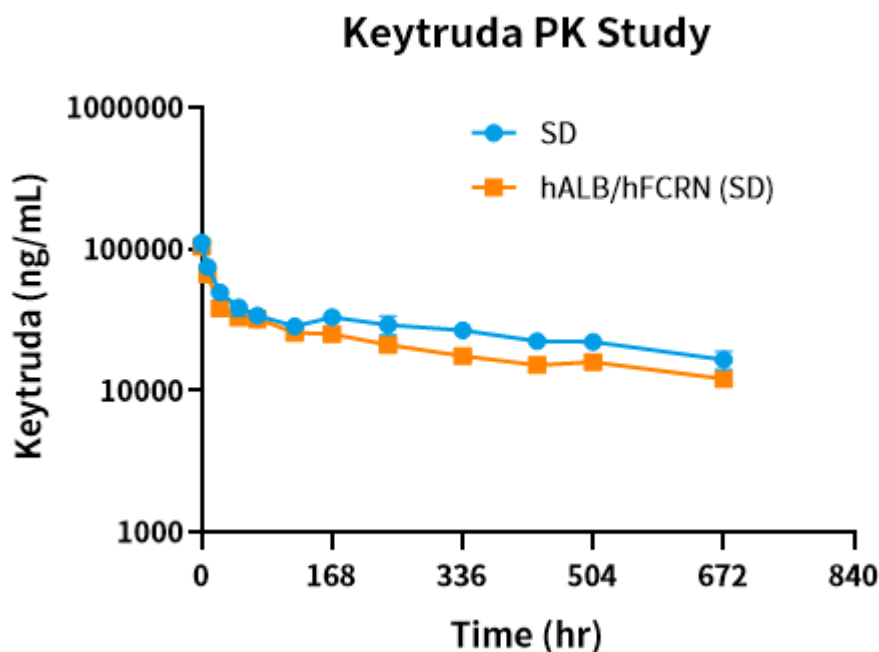
Matrix	Dose (mg/kg)	Group	Test articles	T <sub>1/2</sub>	T <sub>max</sub>	C <sub>max</sub>	AUC <sub>last</sub>	AUC <sub>0-∞</sub>	CI	MRT <sub>last</sub>
				h	h	μg/mL	h*μg/mL	h*μg/mL	mL/h/kg	h
Serum	13	G1	TA	162	0.50	299	26505	27875	0.47	159
		G2	TA-YTE	226	0.50	290	33743	38646	0.34	201
		G3	TA-N434A	378	0.50	328	43592	52243	0.26	205

**Table 1** Pharmacokinetic parameters of test articles in hFcRn/hALB dKI rats.



**Fig.4** Blood concentration curve of test articles in hFcRn/hALB dKI rats (NR-HU-233317), which were generated by crossing hFCRN(SD)(NR-HU-200002) with hALB(SD)(NR-HU-200001).

In hFcRn/hALB dKI rats, the half-life time: TA-N434A > TA-YTE > TA. (In cooperation with the third



party)

**Fig.5** PK study of Keytruda in hALB/hFCRN dKI rat (NR-HU-233317), which were generated by

crossing hFCRN(SD)(NR-HU-200002) with hALB(SD)(NR-HU-200001). (n=3/time point/group)

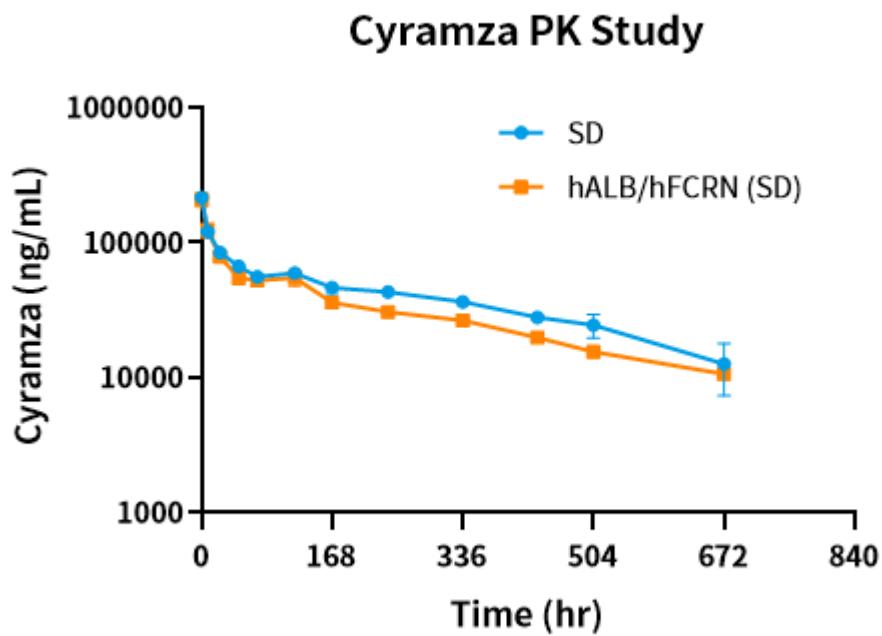


Fig.6 PK study of Cyramza in hALB/hFCRN dKI rat(NR-HU-233317), which were generated by crossing hFCRN(SD)(NR-HU-200002) with hALB(SD)(NR-HU-200001). (n=3/time point/group)