

HEK293T-hCLAUDIN 18.2

Strain Information

Cat. NO.	NM-W04A-TG01
Cell Line	HEK293T-Tg(hCLAUDIN 18.2)Smoc
Strain State	Validation of tumorigenic capacity completed
Model Description	The endogenous mouse Claudin 18.2 gene was replaced by human CLAUDIN 18.2 gene.
	*Literature published using this strain should indicate: HEK293T-hCLAUDIN 18.2 cell line (Cat. NO. NM-W04A-TG01) was purchased from Shanghai Model Organisms Center, Inc..

Validation Data

1. *In vitro* Expression of HEK293T-hClaudin18.2 cell line

hClaudin18.2 expression was measured in wild-type HEK293T cells and HEK293T-hClaudin18.2 cells by Flow Cytometry. FACS results showed that significant human Claudin18.2 expression on the HEK293T-hClaudin18.2 cell.

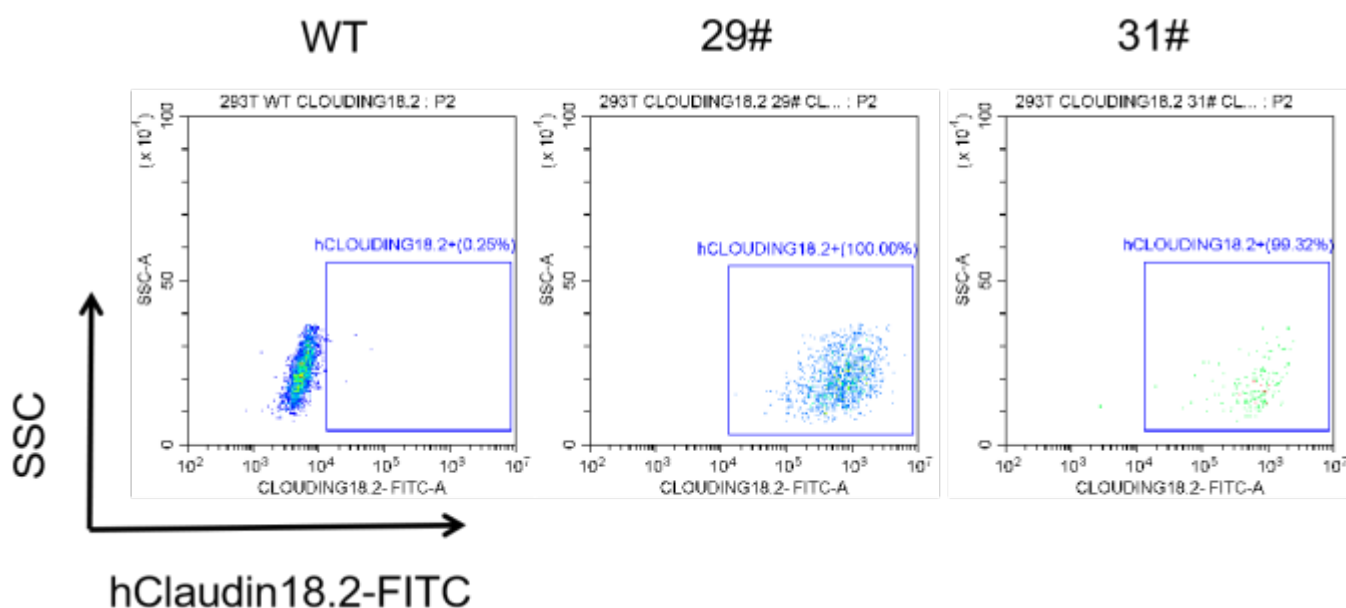


Figure 1. hClaudin18.2 expression in wild-type HEK293T and HEK293T-hClaudin18.2 cell lines

2. Characterization of in vivo growth kinetics

To verify whether there is the difference in tumor formation between the HEK293T -hClaudin18.2 cell line and the wild-type HEK293T cell line, both cells were subcutaneously inoculated into Balb/c nude mice. The tumor growth curve was shown in the Fig 2.

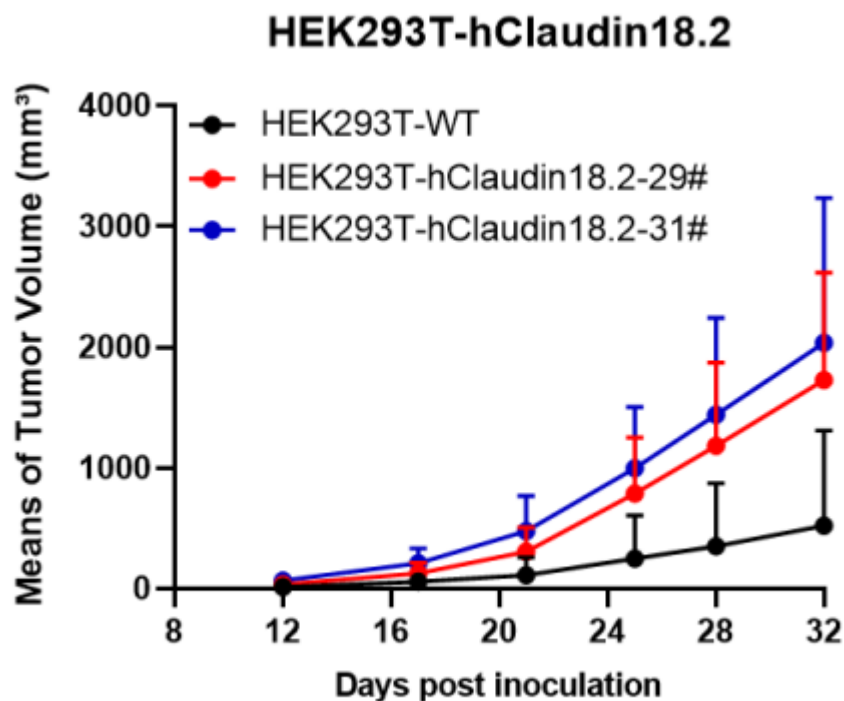


Figure 2. Tumor growth curve of HEK293T and HEK293T-hClaudin18.2 xenograft model (n=4)

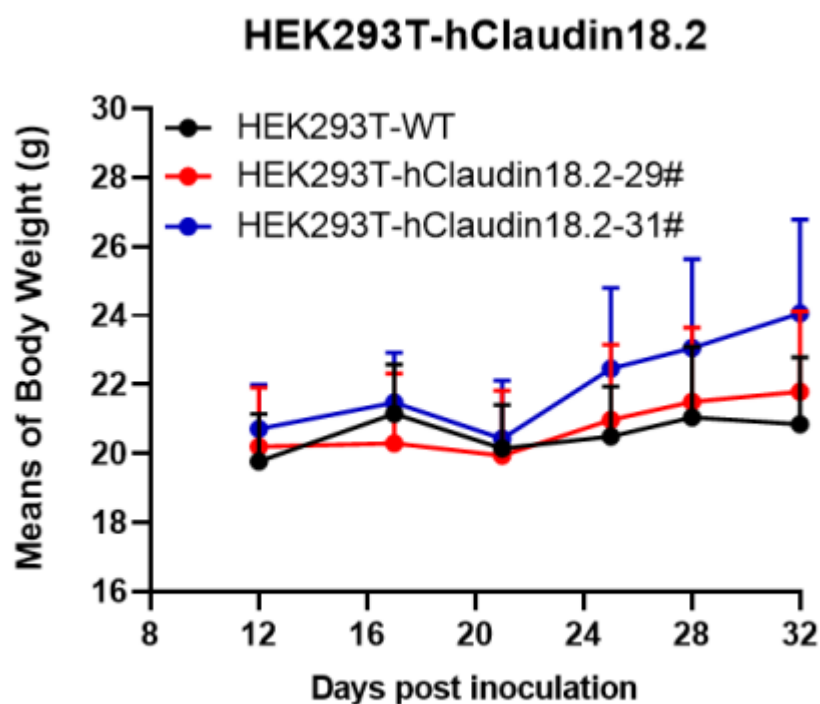


Figure 3. Body weight curve of HEK293T and HEK293T-hClaudin18.2 xenograft model (n=4)

3. Expression of hClaudin18.2 in tumors

To verify the hClaudin18.2 protein expression, the tumors were dissected and separated for single cell suspension. Robust human Claudin18.2 protein expression can be detected in the humanized modified tumors.

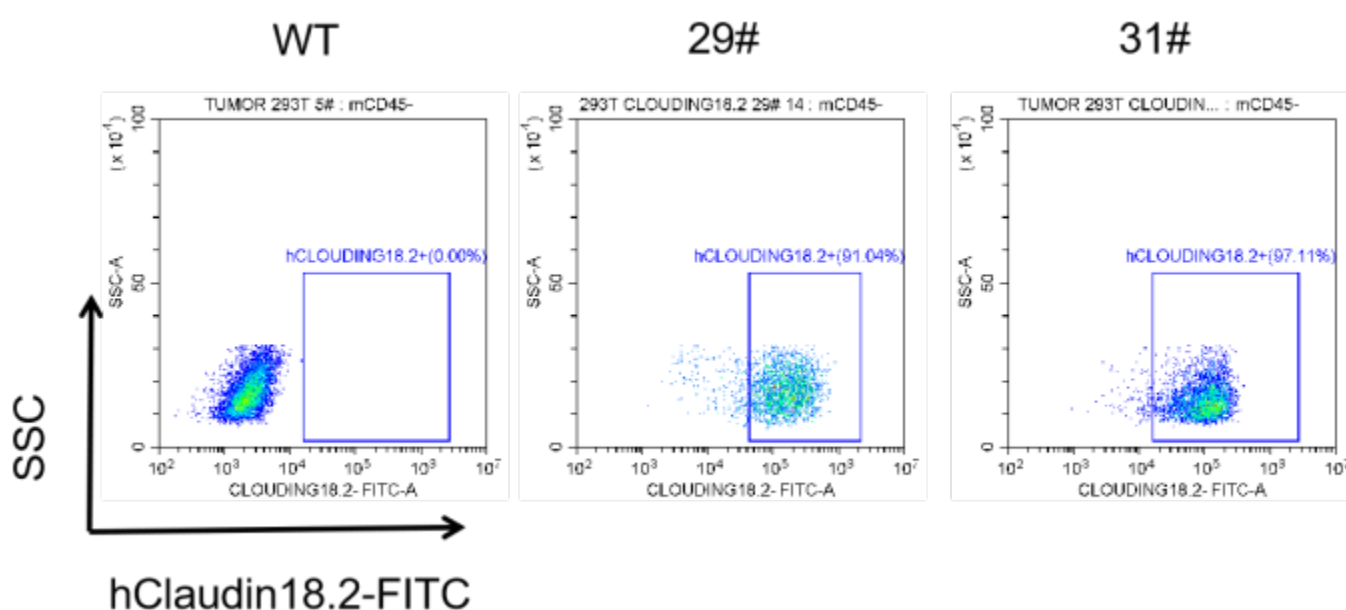


Figure 4. The expression of hClaudin18.2 in humanized modified tumors by FACS

