hEPCAM

Nomenclature	C57BL/6Smoc-*EpCAM*$^{tm1(hEpCAM)Smoc}$
Cat. NO.	NM-HU-210032
Strain State	Sperm cryopreservation

Gene Summary

Gene Symbol Epcam	**Synonyms**	EGP; Ly74; gp40; CD326; EGP-2; TROP1; Egp314; Ep-CAM; EpCAM1; Tacsd1; GA733-2; Tacstd1
	NCBI ID	17075
	MGI ID	106653
	Ensembl ID	ENSMUSG00000045394
	Human Ortholog	EPCAM

Model Description

The endogenous mice Epcam gene was completely or partially replaced by human EPCAM gene via ESC targeting.

Research Application: inmmue therapy; drug screening

*Literature published using this strain should indicate: hEPCAM mice (Cat. NO. NM-HU-210032) were purchased from Shanghai Model Organisms Center, Inc..

Validation Data

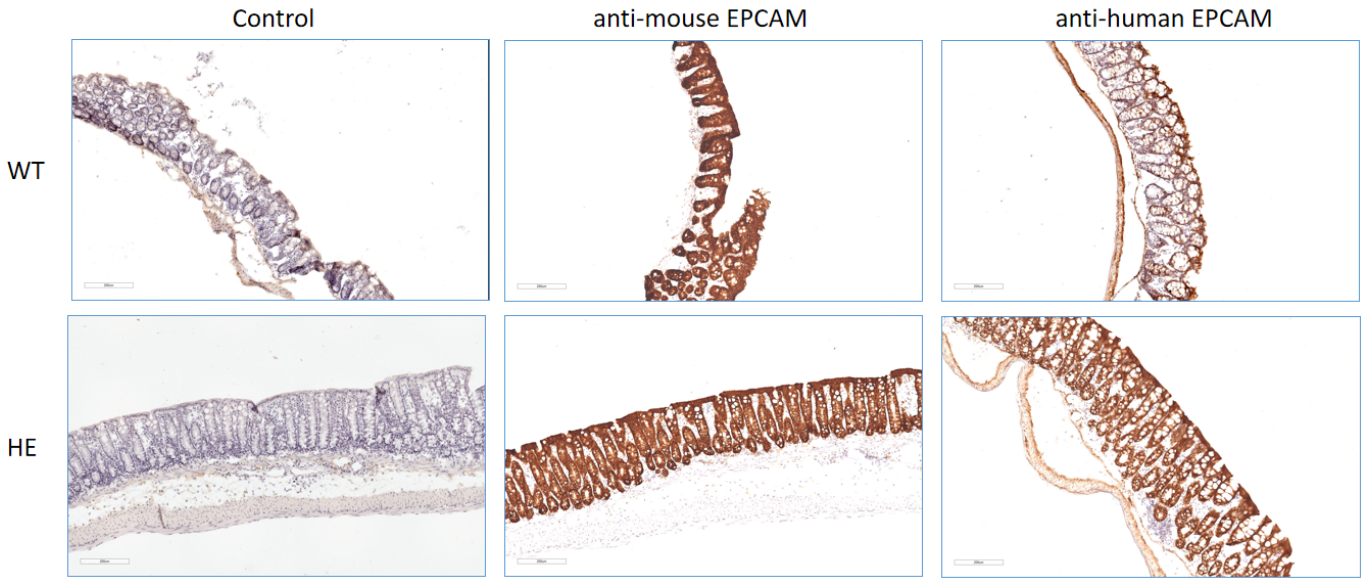

Fig1. Analysis of mouse EPCAM and human EPCAM protein expression in the large intestine by IHC. Both the EPCAM humanized heterozygous mouse and wild type express mouse EPCAM in the mucosal epithelial membranes, and the humanized heterozygous mouse expresses human EPCAM in the crypts significantly.

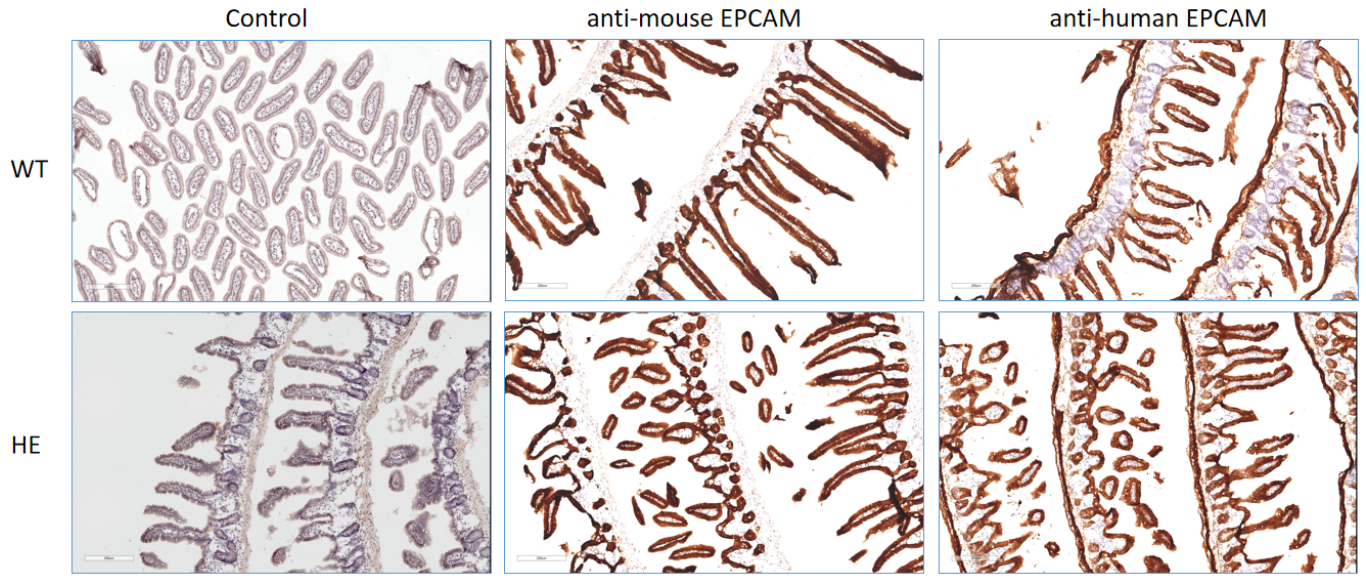

Fig2. Analysis of mouse EPCAM and human EPCAM protein expression in the small intestine by IHC. Both the EPCAM humanized heterozygous mouse and wild type express mouse EPCAM in the mucosal epithelial membranes, and the humanized heterozygous mouse expresses human EPCAM in the crypts significantly.

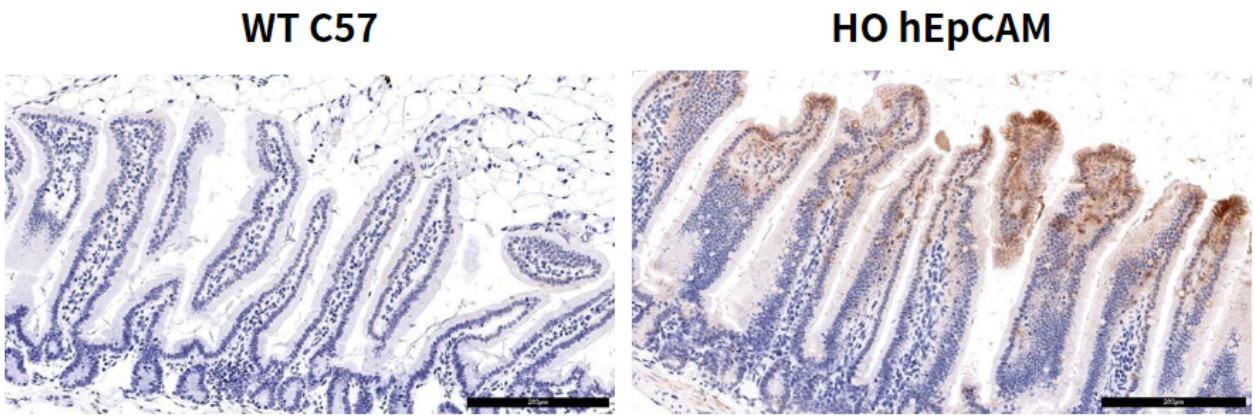

Fig3. Detection of human EpCAM expression in WT C57 and homozygous hEpCAM mice by IHC. Small intestine were collected from wild-type mice (+/+) and homozygous hEpCAM mice (HO/HO), and analyzed by IHC with anti-human EpCAM antibody.