

Supplementary Materials:

Establishment of an Immunocompetent Metastasis Rat Model with Hepatocyte Cancer Stem Cells

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Figure. S1

Tumorigenesis of cellular origins of HCC in F344 rat

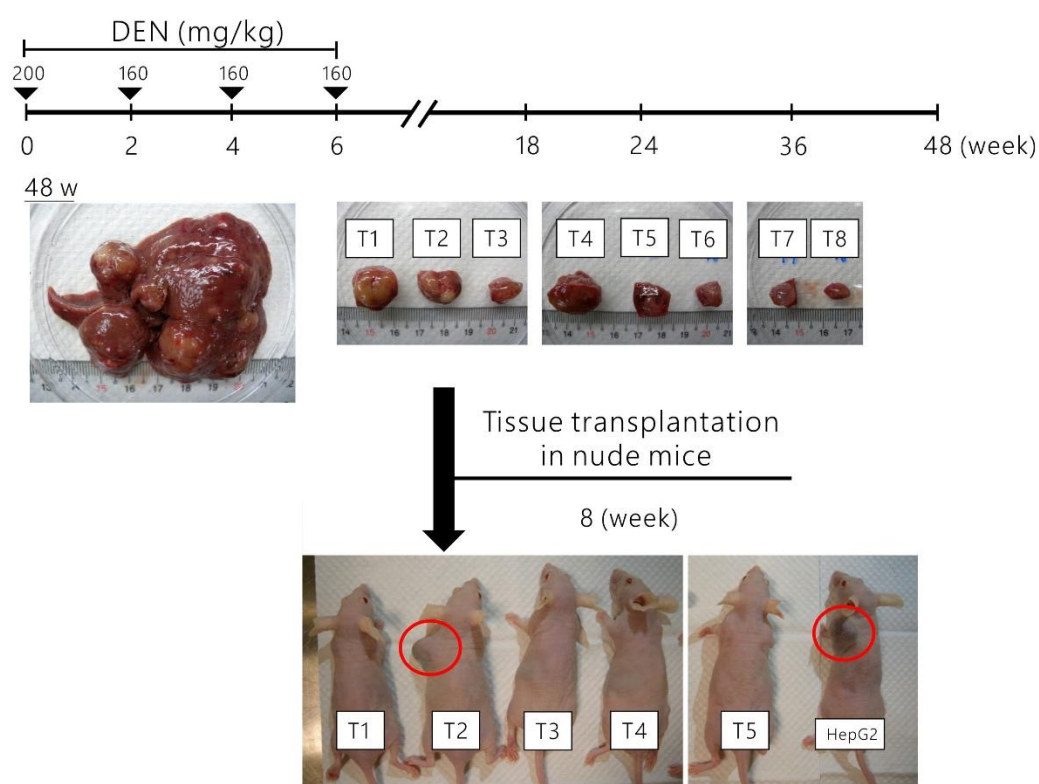


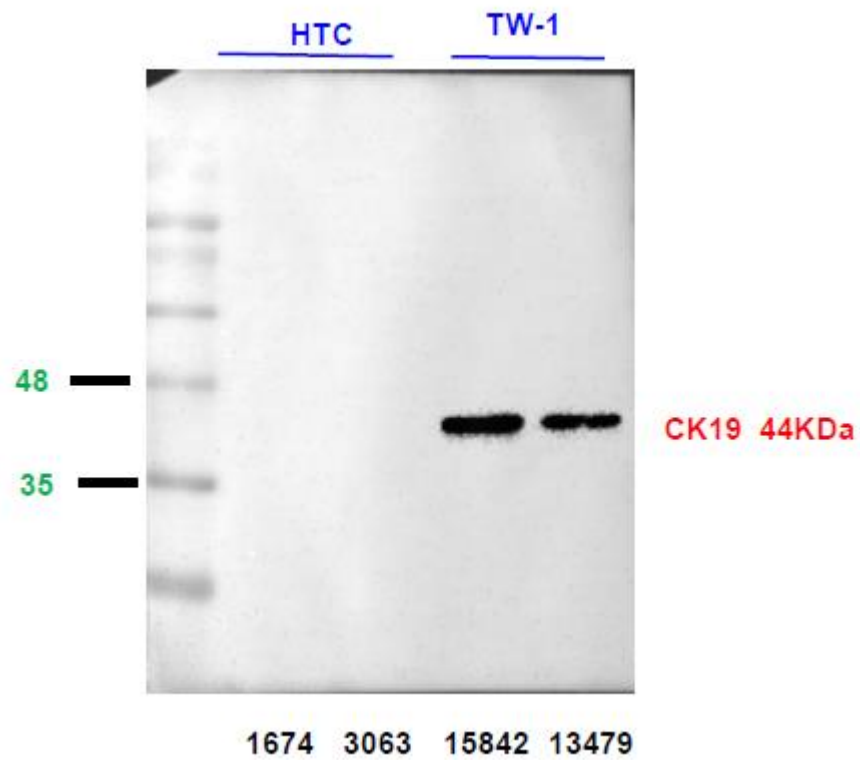
Figure S1. Tumorigenesis of various HCC originated from the DPPIV-deficient F344 rats. The scheme of DEN-induced HCC in DPPIV-deficient F344 rats was shown. The rats were sacrificed at different times after 6 weeks of DEN treatment. Tumors (T1-8) were isolated, measured, and xenografted into nude mice. Only T2 was successfully grown into a solid tumor after eight weeks. Mice injected with the liver cancer cell line HepG2 were used as control.

Figure S2.



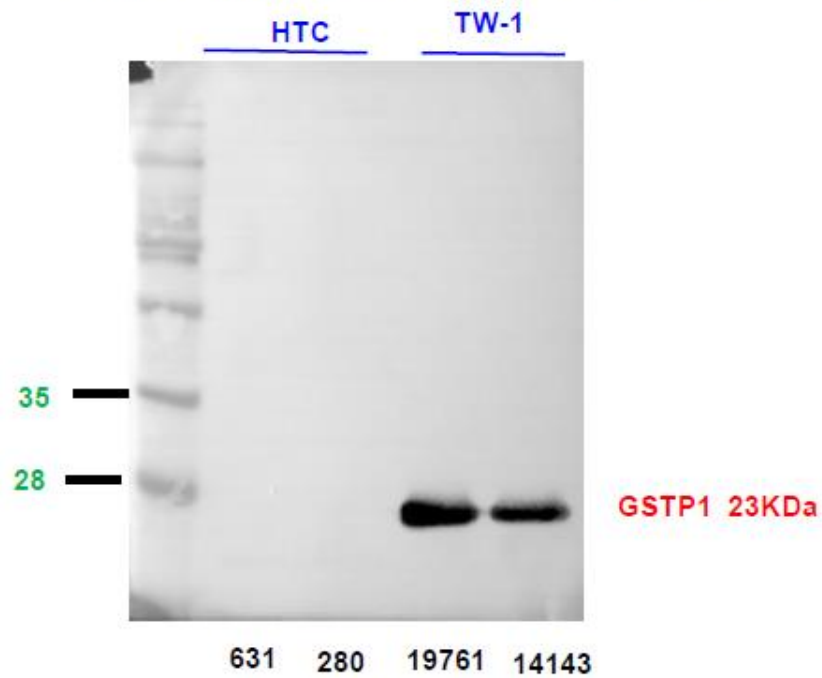
A. CD133

IB: anti-CK19 (Genetex, gtx 34651)



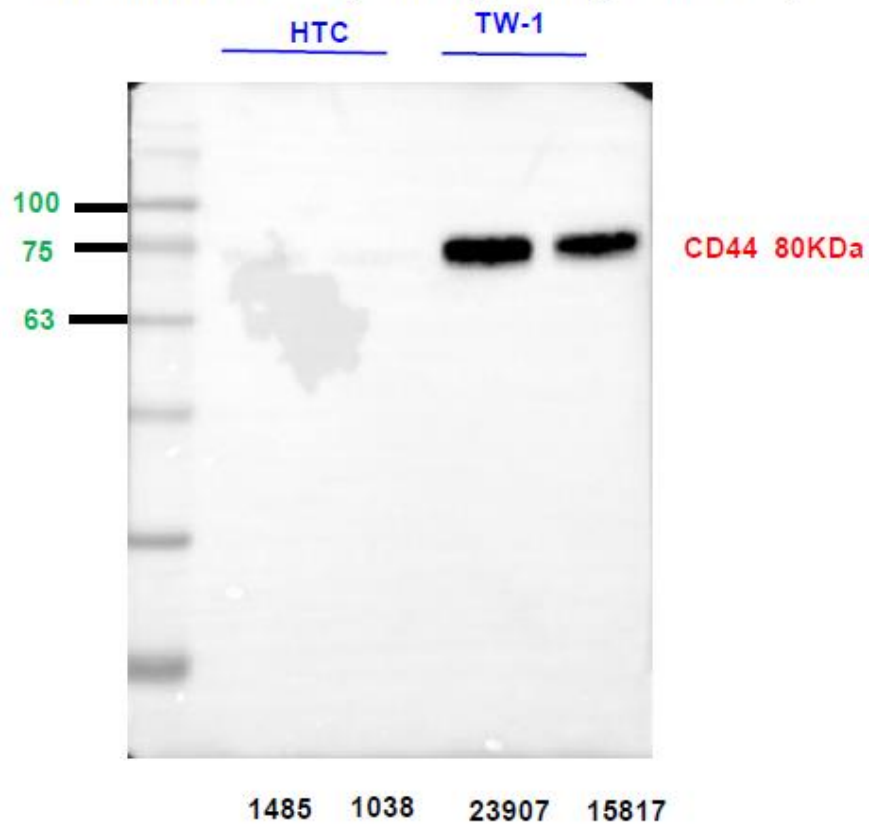
B. CK19

IB: anti-GSTP1 (Genetex, gtx 12695)



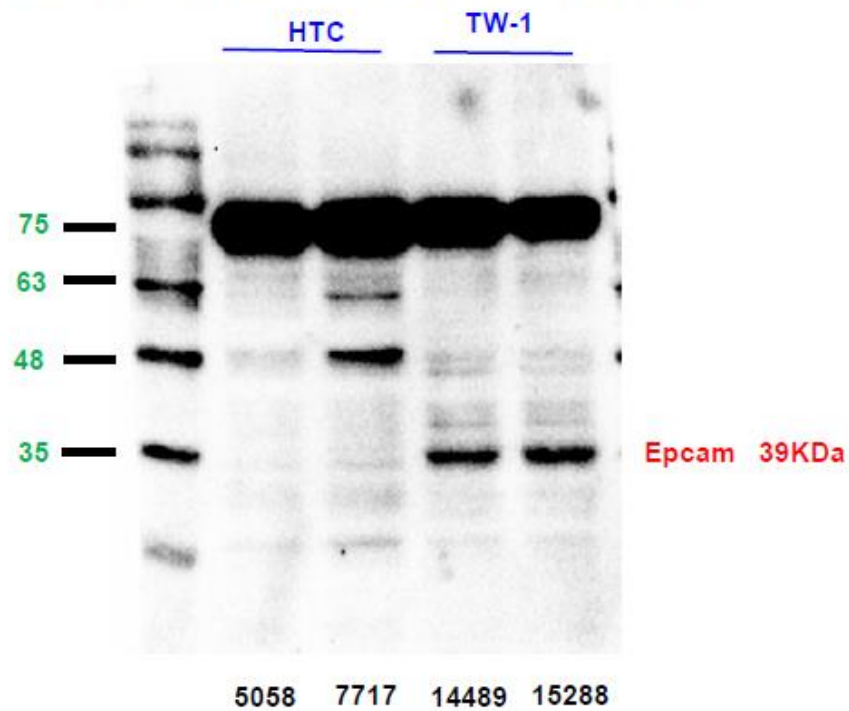
C. GSTP1

IB: anti-CD44 (Cell signaling, 37259S)



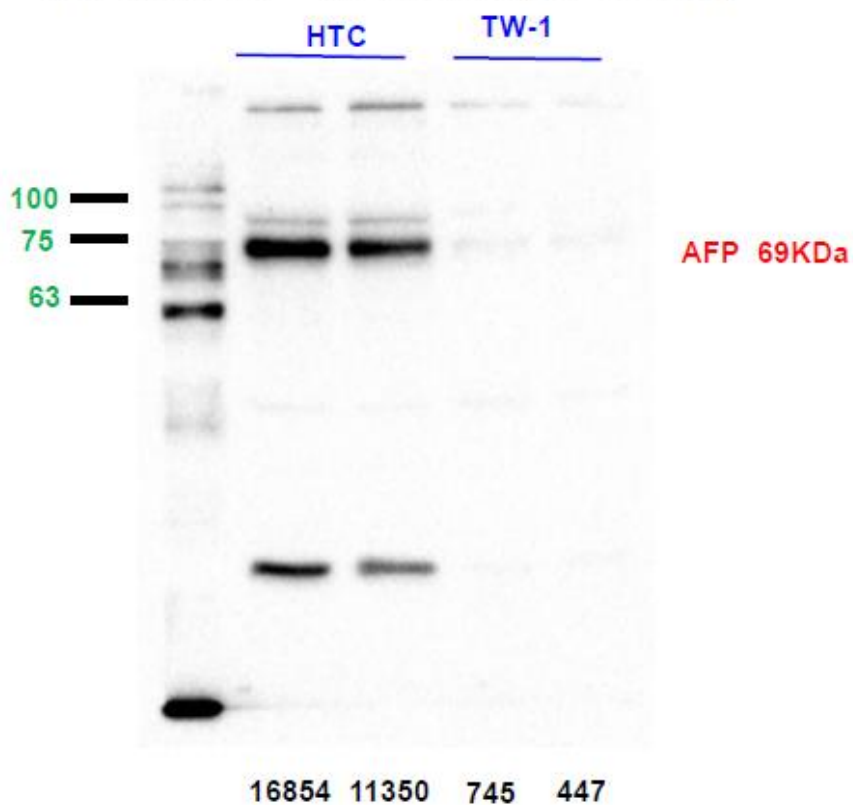
D. CD44

IB: anti-Epcam (Genetex, gtx 61060)



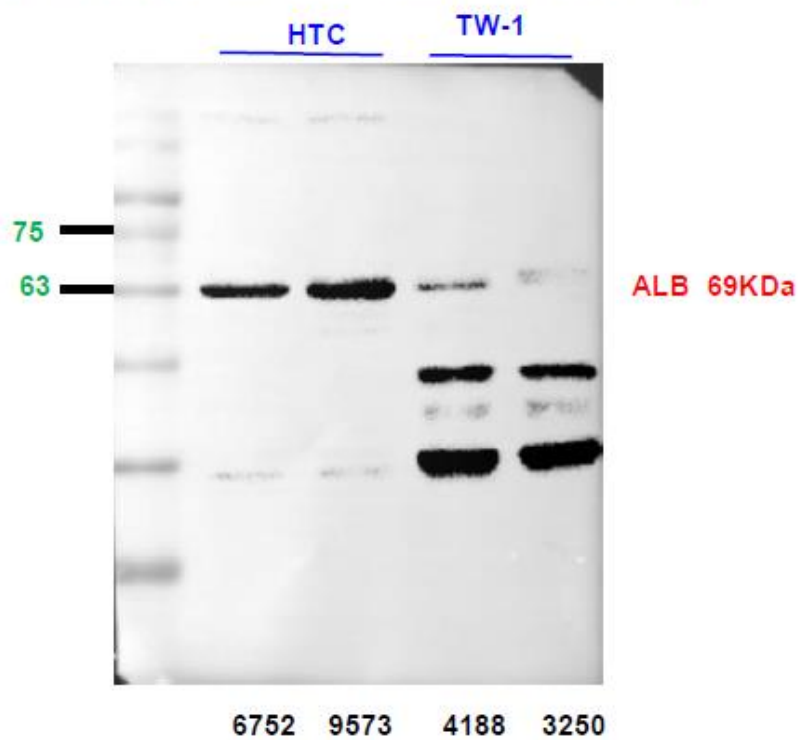
E. EpCAM

IB: anti-AFP (Genetex, gtx 30030)



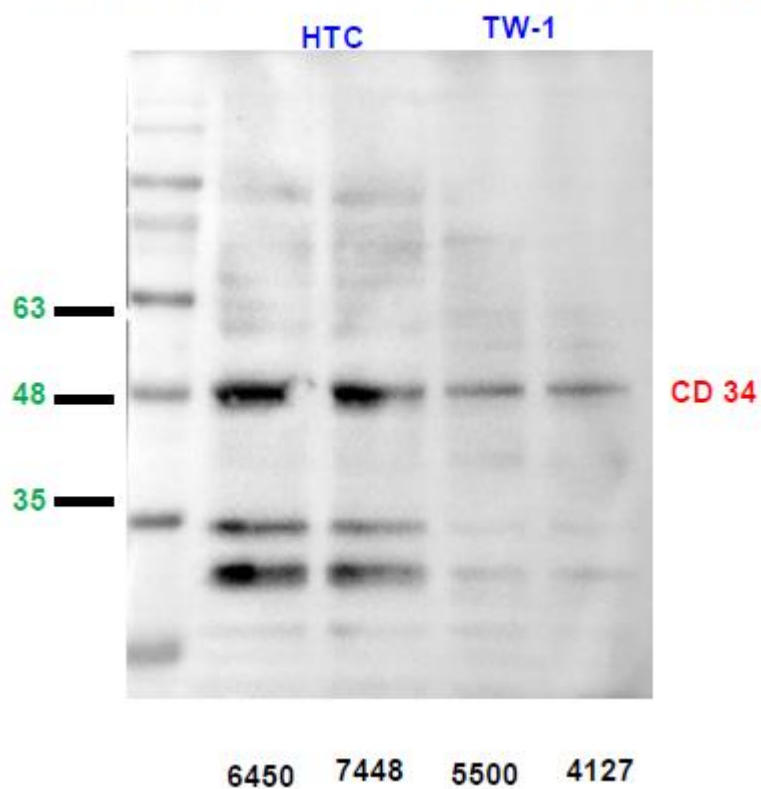
F. AFP

IB: anti-ALB (Genetex, gtx 102419)



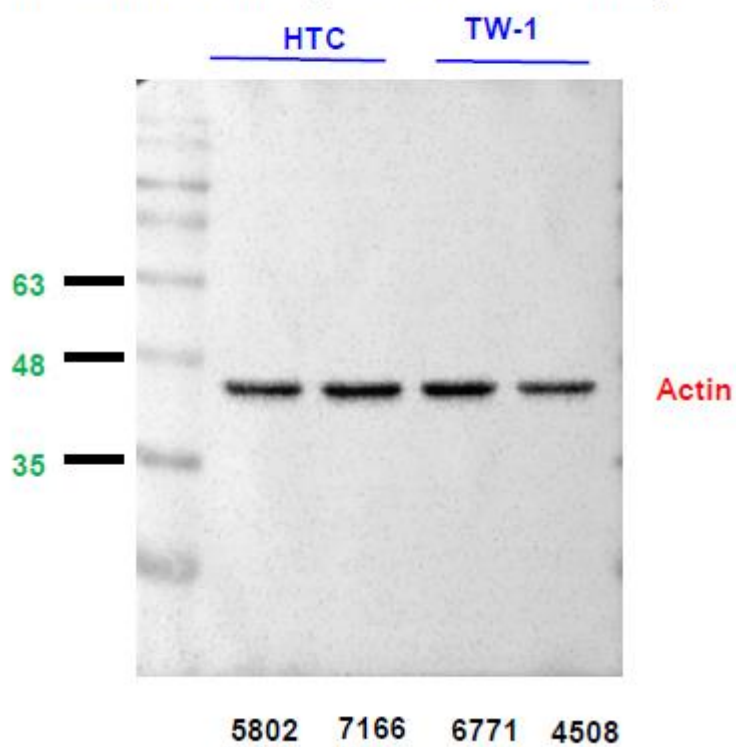
G. ALB

IB: anti-CD34 (Chemicon, CBL496)



H. CD34

IB: anti-Actin (Santa, sc-47778)



I. Actin

Figure S2. The original western blot pictures.

Figure S3.

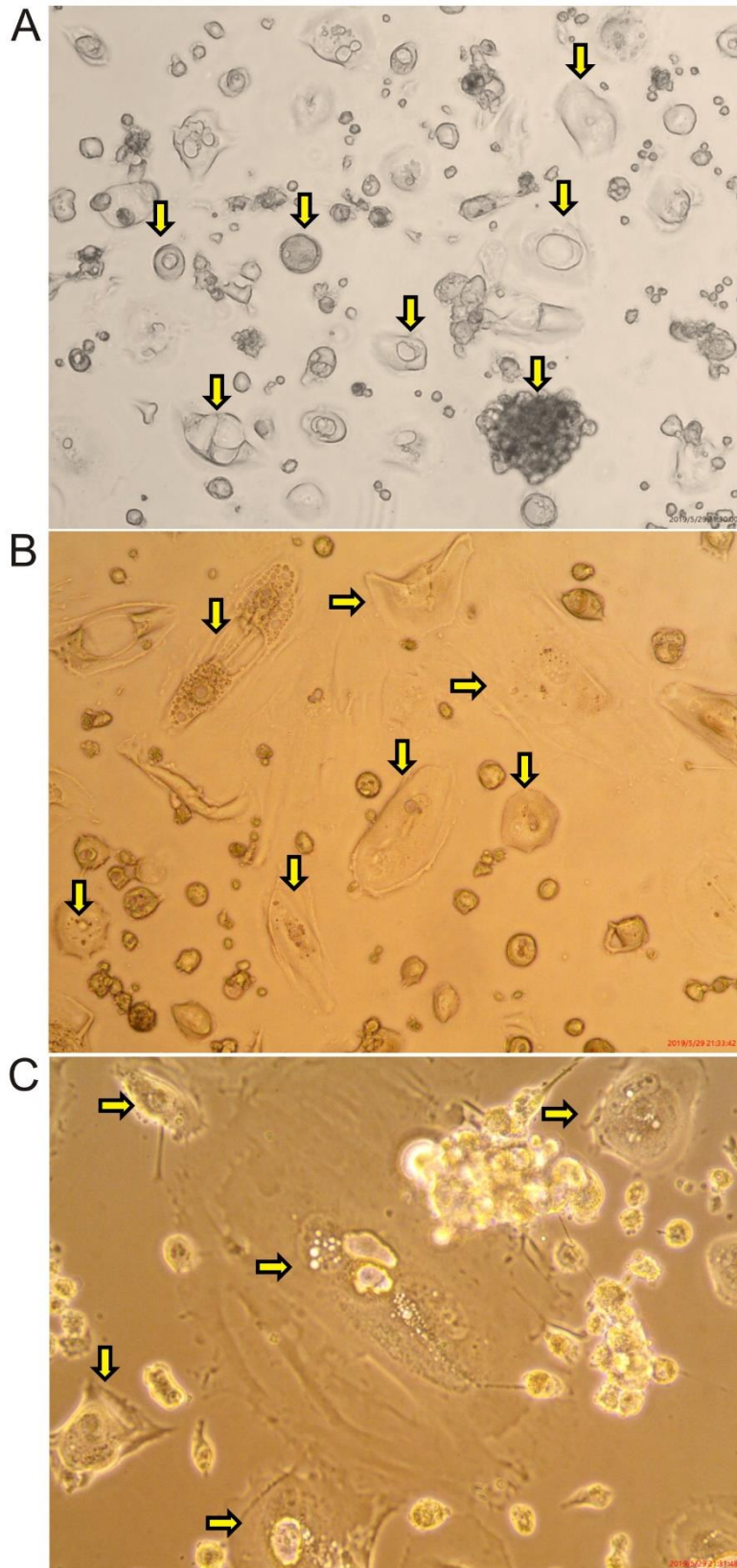


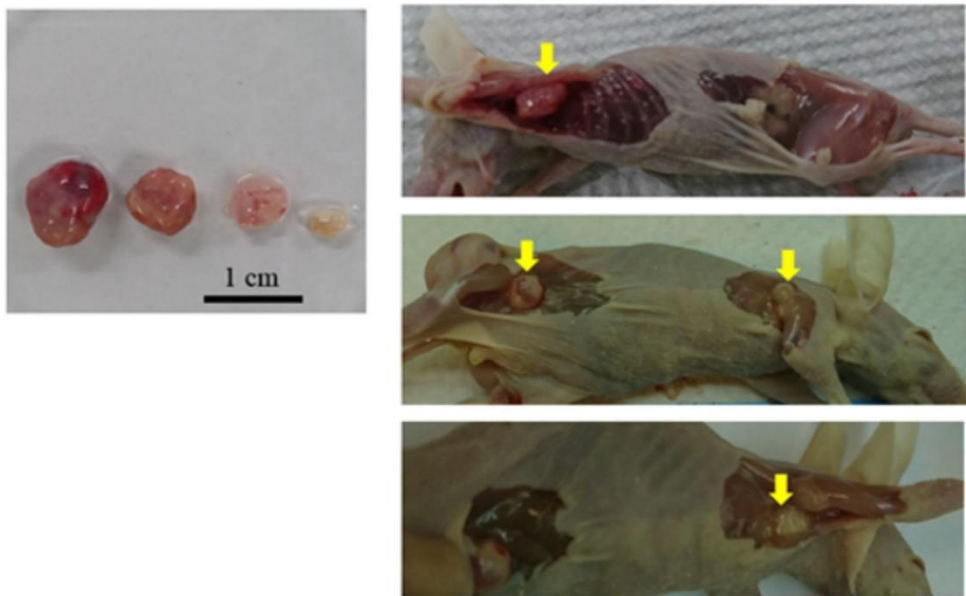
Figure S3. Various cell lineages were differentiated by TW-1 cells after cell

culture.

Figure. S4

A

Lymph node



B

Lung (nude mice) Metastasis

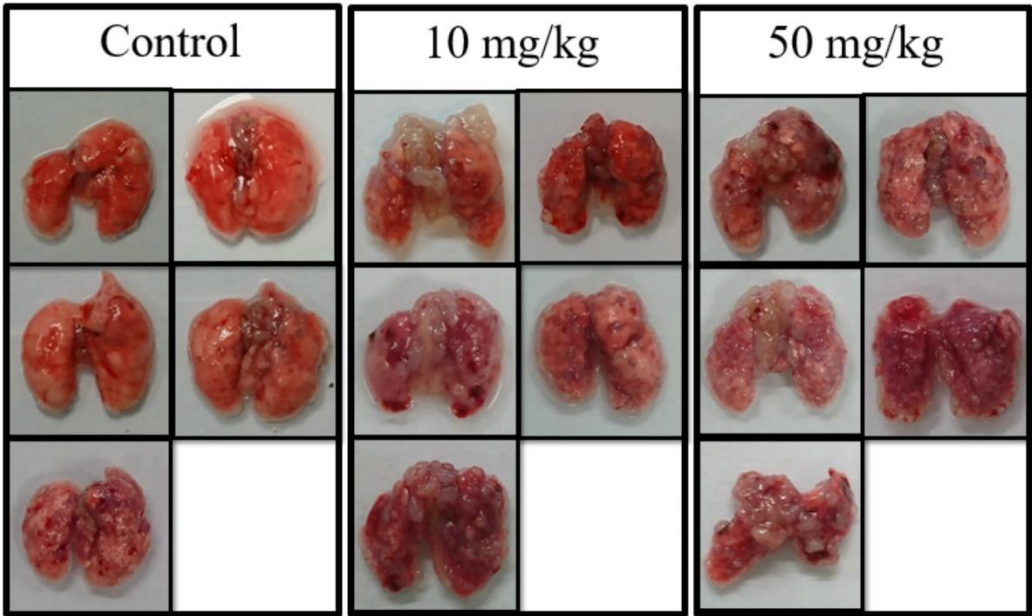


Figure S4. TW-1-derived tumors showed invasion in lymph nodes (A) and metastases to the lungs (B).