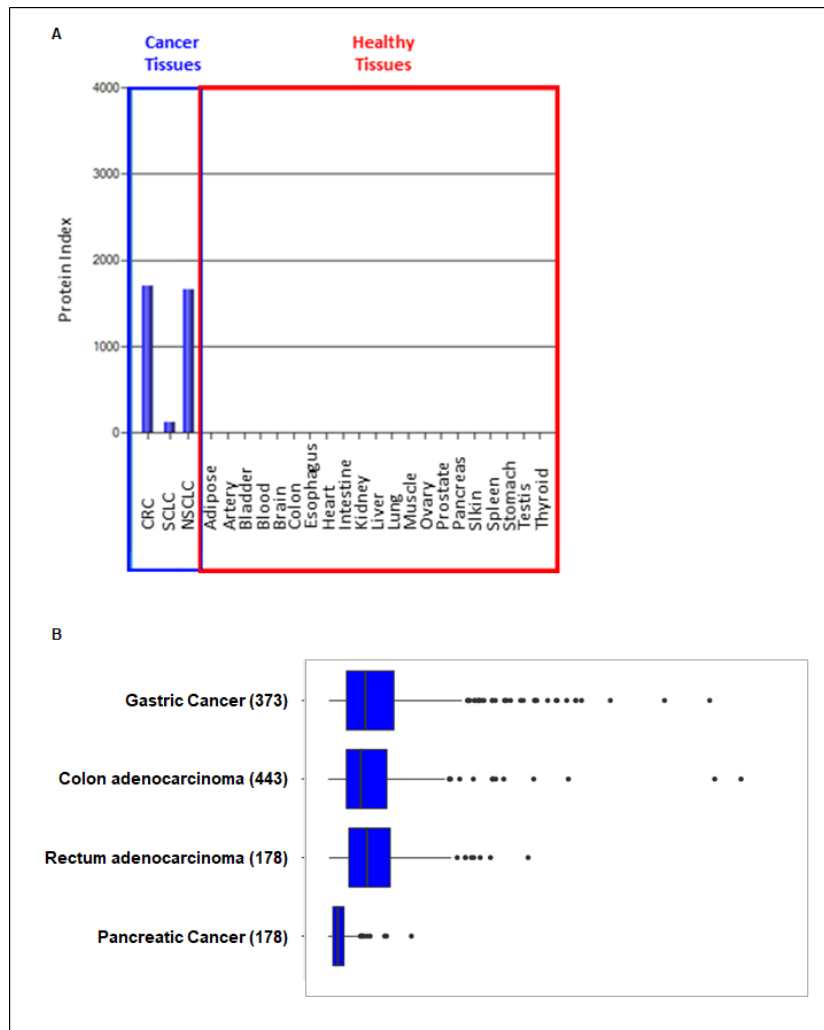


Supplementary Information

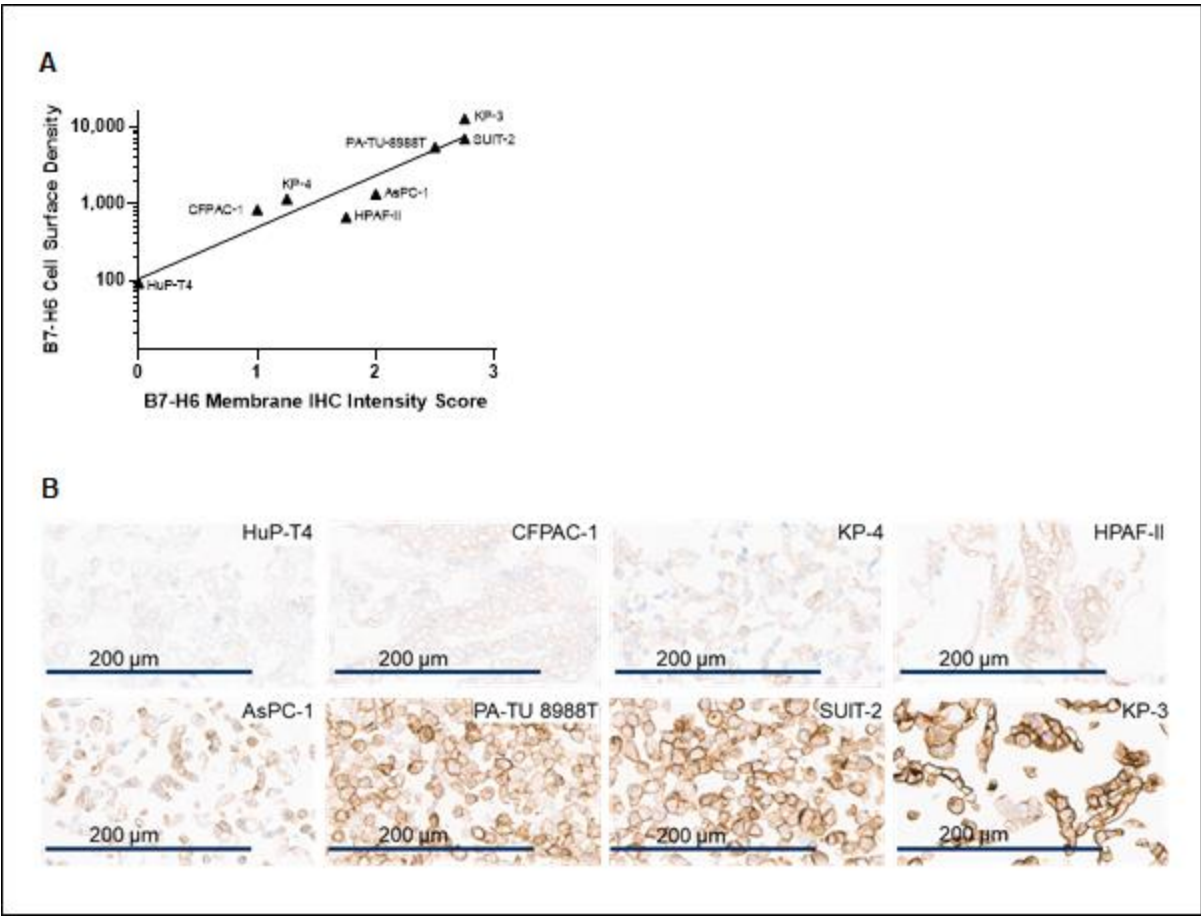


Supplementary Figure 1

(A) OGAP[®] Screen of tumor and non-tumorous (normal, non-diseased tissues).

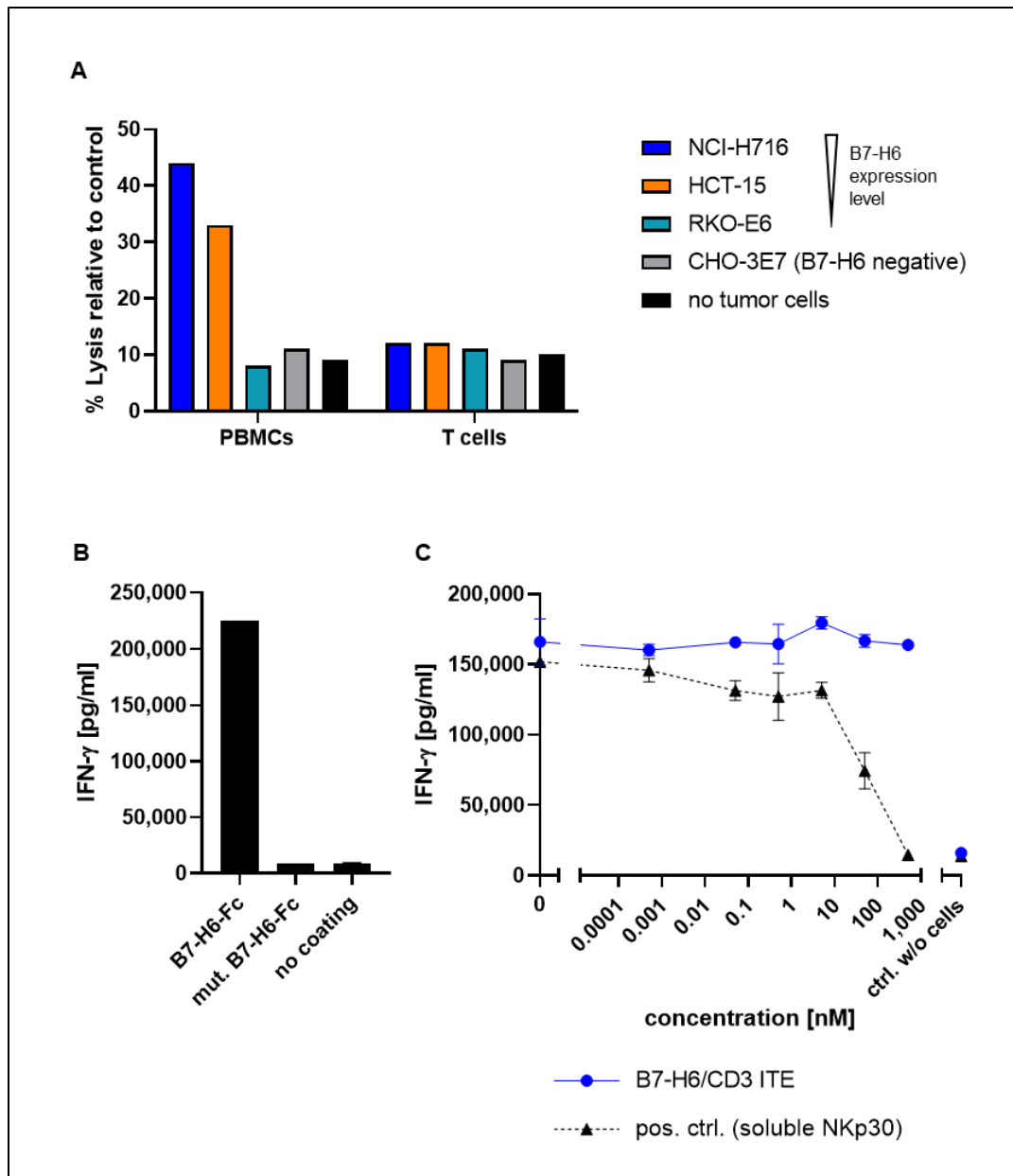
Plasma membrane fractionations were isolated by tissue homogenization followed by membrane solubilization via ultra-centrifugation and discontinuous sucrose density centrifugation. After trypsinolysis, peptides were fractionated by ion exchange chromatography, before the fractionated samples were analyzed by liquid chromatography-mass spectrometry. Obtained raw data were processed using the Mascot protein identification software (Matrix Science) and compared with the OGAP[®] (Oxford Genome Anatomy Project, Oxford BioTherapeutics, UK) database.

(B) B7-H6 mRNA expression in gastrointestinal cancer tissues (TCGA).



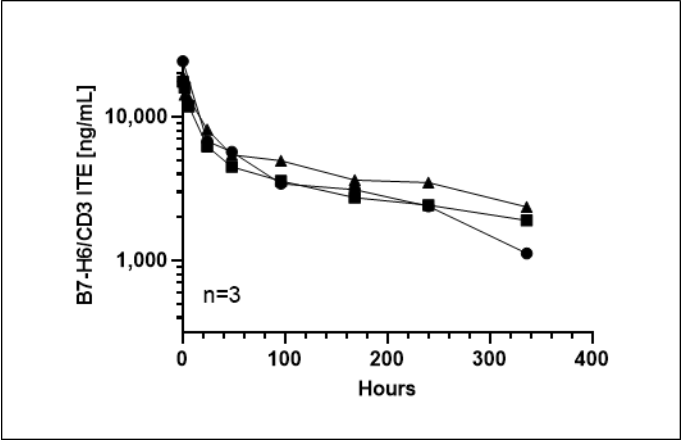
Supplementary Figure 2

B7-H6 expression on cell lines. (A) Correlation of B7-H6 cell surface density as determined by flow cytometry and membrane IHC intensity score as determined in FFPE cell pellets of eight pancreatic cancer cell lines. **(B)** Representative images of membranous B7-H6 expression in FFPE cell pellets of eight pancreatic cancer cell lines.



Supplementary Figure 3

Influence of B7-H6/CD3 ITE on the B7-H6-induced activation of NK-92[®] MI cells. (A) Human PBMCs or T cells and B7-H6-positive NCI-H716 (13,000 B7-H6 on the cell surface), HCT-15 (8,000 B7-H6 on cell surface), RKO-E6 cells (1,700 B7-H6 on the cell surface) or B7-H6-negative CHO-3E7 cells were co-cultivated for 72 hours. Cell lysis was determined by LDH release assay. Bars represent the mean of duplicate measurements. **(B,C)** B7-H6-dependent IFN- γ secretion by NK-92[®] MI cells was analyzed after culturing NK-92[®] MI cells 24 hours on cell culture plates coated with recombinant B7-H6 extracellular domain protein. **(B)** IFN- γ secretion by NK-92[®] MI cells cultured on plates coated with recombinant B7-H6-Fc or mutated-B7-H6-Fc proteins. **(C)** Influence of BI 765049 on B7-H6-dependent IFN- γ secretion of NK-92[®] MI cells. Each datapoint represents the mean of duplicate measurements, error bars represent the SD.



Supplementary Figure 4

Pharmacokinetic profile in NOG mice. Each datapoint represents one animal.