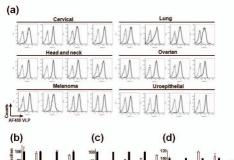


Figure \$1. Normal tissues are refractory to HPV infection *in vivo* unless traumatized HPV16 RFP PSV were administered intrapentioneally, intransasily, intrabronchially or intravenously intron aniema than that obe no locally pre-treated with 2% nonoxynol-0 (N9) via the same route (not in the case of the intravenous animals). After 72nt, the tissues are harvested, frozen, sectioned and VI-Ps are imaged directly by detecting. RFP signal by microscopy (Blue-DAPI, Red-PSV Infaction). The first own depicts itsues from animals had did not receive No (panels, a. c. e., g. and i) and the second row depicts itsues from animals after N9 pre-treatment (b, d, f, h and j). Images are representative of 1-3 animals.





H32368

HASO

SK-MEL-2

i-Carr:

OVCAR-3 OVCAR-4 SHIN-3 SK-OV-3

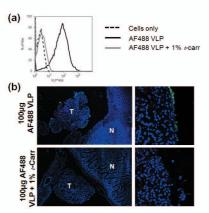


Figure 3.1 % s-Carrageenan blocks AF488 HPVVLP binding to SHIN-3 DSR cells in wire and in wive (a) 2gyplm AF488 coupled VLPs that were used in wive (see Figure 4) were as tested on SHIN-3 DSR cells in wire for binding (black line) and inhibition of binding by 1% s-carrageenan (gray line) (inegative control, dashed line), (b) Tumor nodules from Figure 4 were forzen, sectioned and examined for VLP localization using confocal microscopy (Blue-DAPI Creen-AF488 VLP EVER-AFP) AF488 binding to humor nodules but not normal intestinal epithelia (upper panel) is greatly reduced in the presence of 1% s-carrageenan (lower panel). Let panel images are composite piced together from several 40x images taken in succession from individual tissues. Right panel images are single 40x taken from representative tumor nodules. Tumor, N-n normal tissue. RFP signal of fumors is low after fixation and is known to decrease over time once implanted in vivo. Images

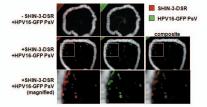


Figure S4. Animals (+/. SHIN.3 DSR Lumors) received an intraperitoneal injection of HPV16-GFP Ps/ HPV.16 GFP Ps/ (5 x 10⁸ IU) was administered 19 14 days after Lumor implantation. Three days post-injection, the small intestines was removed and placed in a "where!" formation for ex vivo fluorescentimaging. White, Red (tumor, RFP), and Green (PsV infection, GFP) channels were collected and individual as well as merged images are pictured. I mages representative of 3 mice.

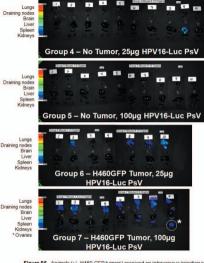


Figure \$5. Animals (+/- H460-GFP tumors) received an intravenous injection of HPV16-Luc PsV. Two days post-injection, luciferin substrate was administered and after whole body bioluminescent imaging, organs were removed and imaged ex vivo not to freezing.

NCLH522 4 6491 SK-MEL-2 1 0787 TK-10 0.2798 NCLH23 1 2310 HACC-62 0.2508 CAKL1 0 1325 SK-MEL-5 NCI-H322M 1.0356 0 1411 A498 0.0695 NCLH460 0.8160 MAI ME-3M 0.0766 786.0 0.0143 FKVX 0.6172 LOXIMVI 0.0459 SN120 0.0125

Table S1 - HPV-16 infects many human tumor cell lines

Melanoma

HACC-257

M14

SK MEL 20

SK-OV-3

Relative

Infection

0.0017

0.0008

0.0003

0.0644

Relative

Infection

0.0119

0.0046

0.0010

0.0030

Renal

ACHN

UO-31

DVE 303

SF-295

Relative

Infection

Lung

A549 0.2581

HOP-62

HOP-92 0.0301

NCI-H228 0.0179

HT29 0 1335

0144 0000 0 00000

infection of each cell type.

Colon Ovarian CNS HCC-2008 1 4509 OVCAR-3 5 1347 SNR-10 0.3125 HCT-15 0.4791 OVCAR-4 1.3184 U251 0.1133 **KM12** 0.3486 **IGROV1** 0.4313 SF-268 0.0532 COL 0205 0.2493 OVCAR-9 0.1012 SE.530 0.0203 HCT-116 0.1898 OVCAR-5 0.0933 SNR.75 0.0199

377-020	0.0300				
		Lymphoid		Breast	
Prostate		K-562	0.7831	T47D	0.8488
PC-3	0.1782	RPMI 8226	0.0399	MCF7	0.6100
DU-145	0.1631	CCRF-CEM	0.0234	HS578T	0.0208
		MOLT-4	0.0004	BT-549	0.0178
		HL-60	0.0003	MDA-MB-231	0.0002

MCLT-4 0,0004 BT-549 0,0178
HL-80 0,0003 MDA-MB-231 0,0002

Table \$1. HPY15-GFP PsV infects many human tumor coll lines. A panel of 50 human tumor cell lines weet breaded with HPV16-GFP PsV, and GFP eignal was measured 72 virtue. The control of t