

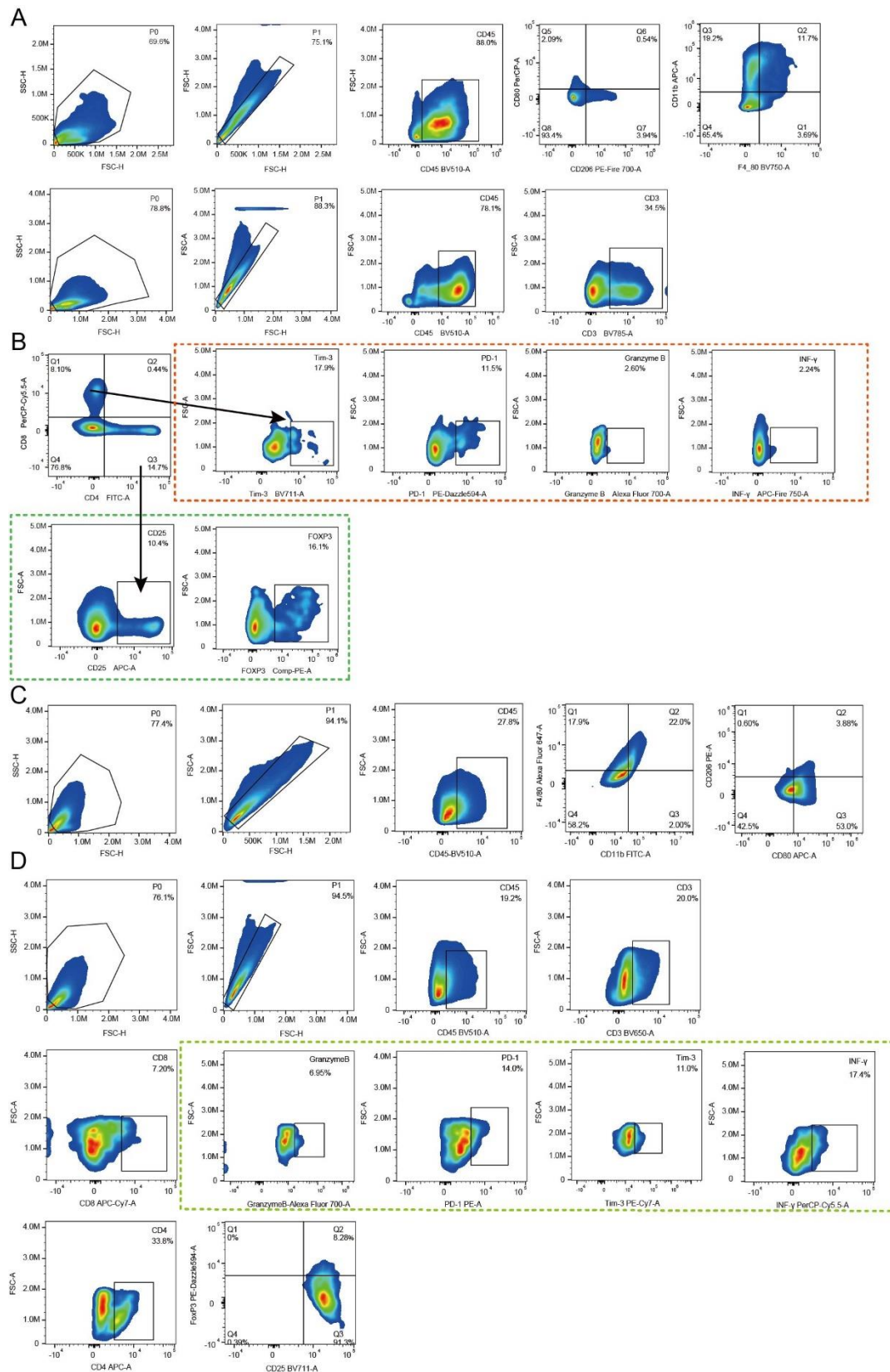


Figure S1. Gating strategy for flow cytometry analysis. Cells were gated sequentially to exclude debris, select single cells and live cells, followed by identification of target cell populations as shown.

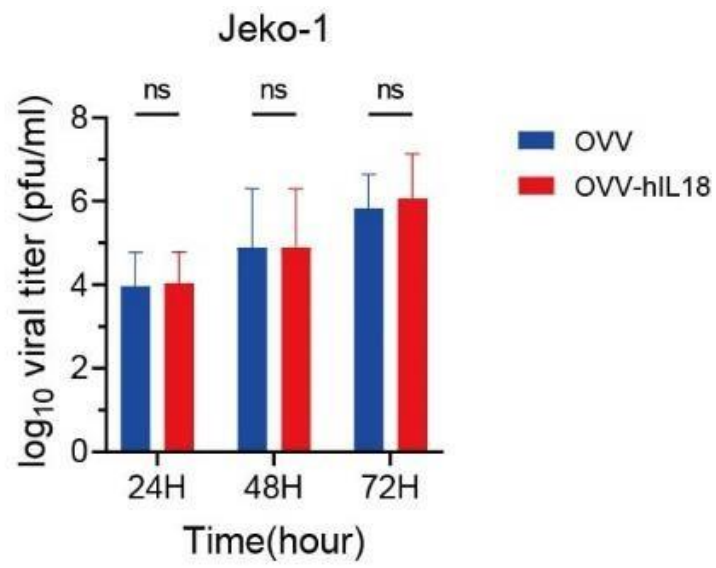


Figure S2. Viral replication in Jeko-1 cells at 24, 48, and 72 h post-infection with OVV-hIL18 supernatant using TCID₅₀.

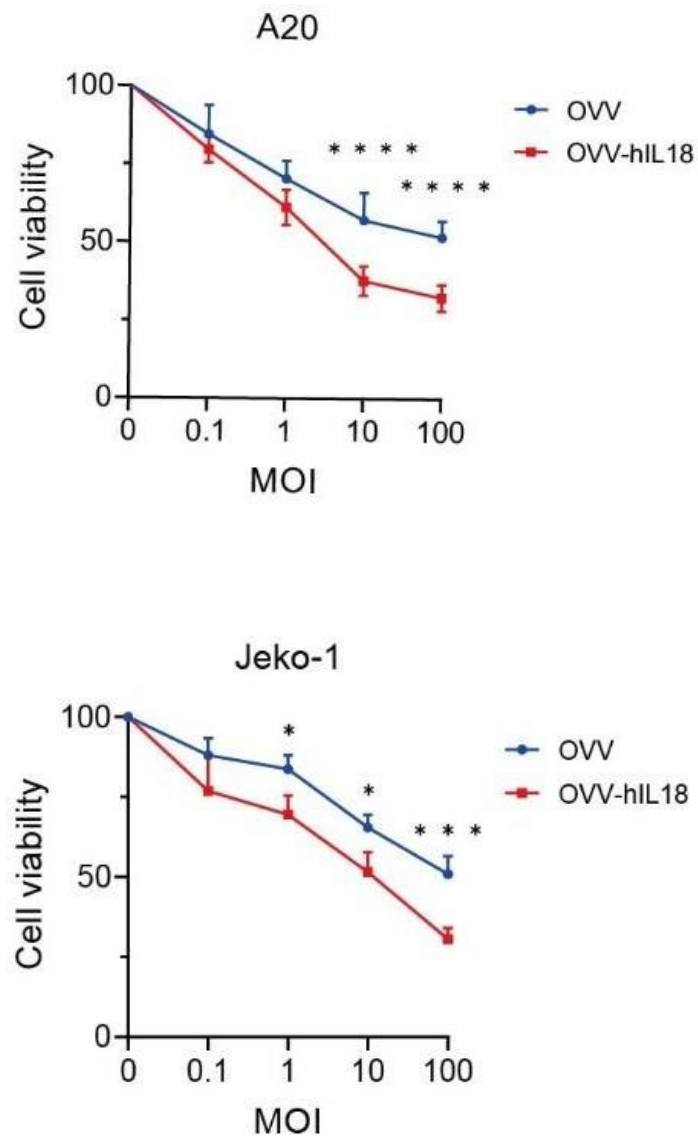


Figure S3. Tumor cell lytic activity of OVV-hIL18 and OVV against A20 and Jeko-1 cells evaluated by CCK-8 assay.

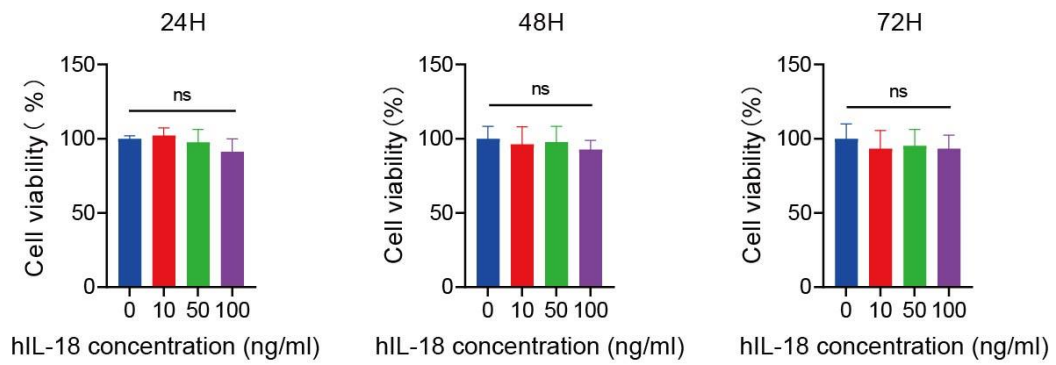
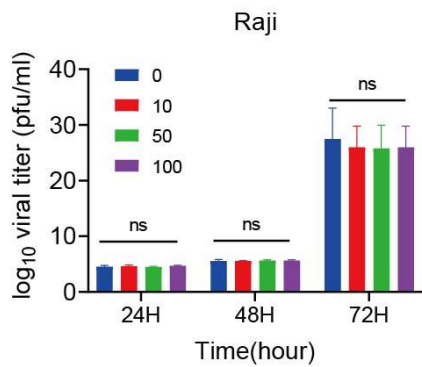
A**B**

Figure S4. (A) Tumor cell lytic activity of hIL18 against Raji cells evaluated by CCK-8 assay. (B) TCID₅₀ assays were performed to demonstrate the effect of hIL-18 on OVV replication in Raji cells 24, 48, and 72 hours after infection with OVV supernatant

Table S1 List of Fluorescent Antibodies for Flow Cytometry

Antibody	Fluorescence	Catalog numbers	Clone	Origin	Dilutions
Anti-mouse CD45	BV510	103138	30-F11	Biolegend	1:500
Anti-mouse CD3e	BV785	100355	145-2C11	Biolegend	1:500
Anti-mouse CD4	FITC	100405	GK1.5	Biolegend	1:500
Anti-mouse CD8a	PerCp-cy5.5	100733	53-6.7	Biolegend	1:500
Anti-mouse CD11b	APC	101211	M1/70_	Biolegend	1:500
Anti-mouse CD25	APC	113708	A18246A	Biolegend	1:500
Anti-mouse CD206	PE-Fire700	141741	C068C2	Biolegend	1:500
Anti-mouse CD336(Tim-3)	Bv711	119727	RMT3-23	Biolegend	1:500
Anti-mouse F4/80	BV750	123173	BM8	Biolegend	1:500
Anti-mouse INF- γ	APC-Fire750	505860	XMG1.2	Biolegend	1:500
Anti-mouse Granzyme B	AF700	372222	QA16A02	Biolegend	1:500
Anti-mouse CD80	Percp	ab82410	MEM- 233	Abcam	1:500
Anti-mouse FoxP3	PE	12-5773-82	FJK-16S	Invitrogen	1:500
Anti-mouse CD279	PE-Dazzle594	135228	29F.1A12	Biolegend	1:500
Anti-human CD45	BV510	368525	2D1	Biolegend	1:500
Anti-human CD4	APC	FHA004-02- 100	4Ariv7	4A Biotech	1:200
Anti-human CD8a	APC-CY7	FHO008a-02- 100	4AHIT8a	4A Biotech	1:200
Anti-human CD25	BV711	302636	BC96	Biolegend	1:200
Anti-human FoxP3	PE-Dazzle594	320126	206D	Biolegend	1:500

Antibody	Fluorescence	Catalog numbers	Clone	Origin	Dilutions
Anti-human CD69	APC	560967	FN50	Biolegend	1:200
Anti-human Granzyme B	AF700	372222	QA16A02	Biolegend	1:500
Anti-human INF- γ	PERCP- CY5.5	502525	4S.B3	Biolegend	1:500
Anti-human Tim-3	PE-CY7	345013	F38-2E2	Biolegend	1:500
Anti-human CD279(PD-1)	PE	560908	MIH4	BD	1:500
Anti-human CD11b	FITC	301329	ICRF44	Biolegend	1:500
Anti-human CD80	APC	305220	2D10	Biolegend	1:500
Anti-human CD206	PE	321105	15.-2	Biolegend	1:500
Anti-human F4/80	AF647	123122	BM8	Biolegend	1:200