

Supplementary Information

Serum Extracellular Vesicles Containing Adenoviral E1A-DNA as a Predictive Biomarker for Liquid Biopsy in Oncolytic Adenovirus Therapy

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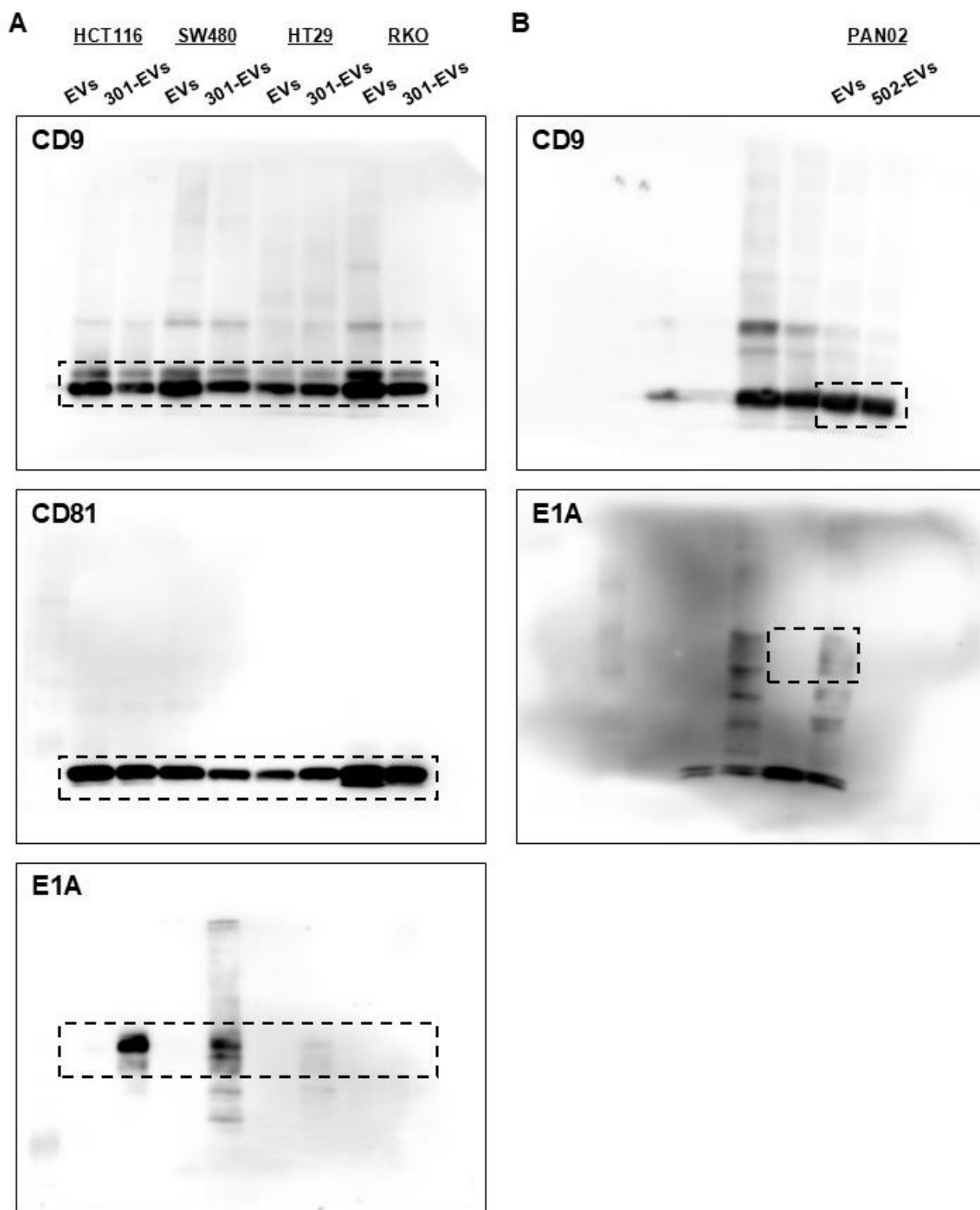
Supplementary Fig. S1. Full-length blot images for Fig. 1

Supplementary Fig. S2. Supporting data for Fig. 2

Supplementary Fig. S3. Supporting data for Fig. 3

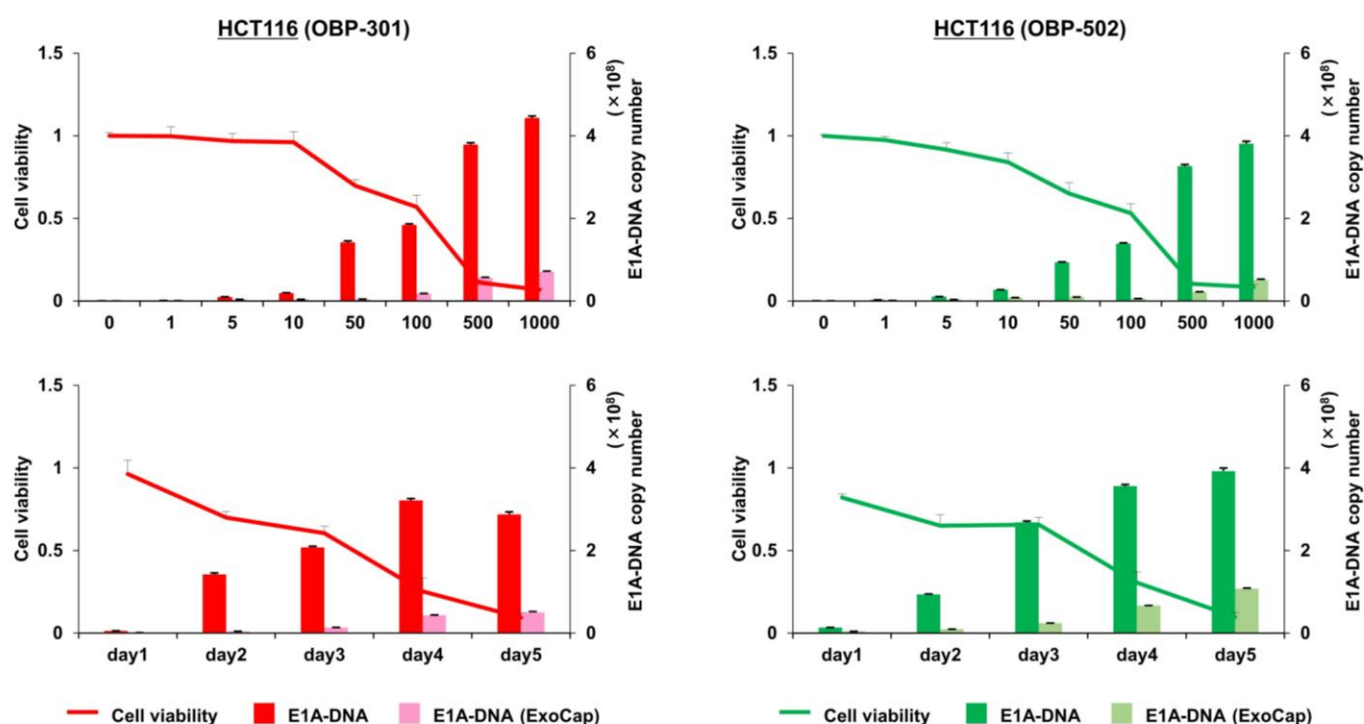
Supplementary Fig. S4. Supporting data for Fig. 4

Supplementary Fig. S5. Gene structure of oncolytic adenoviruses



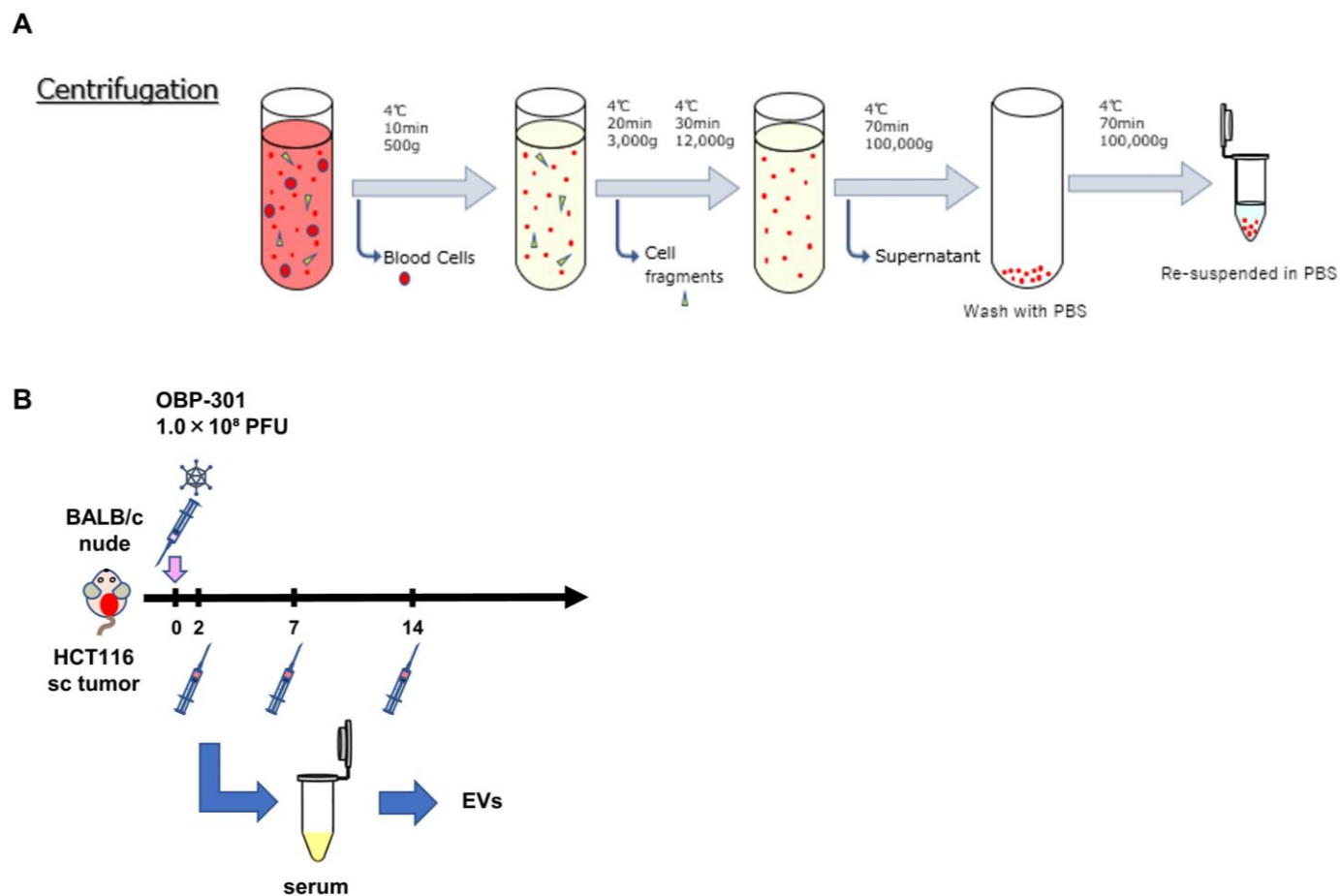
Supplementary Fig. S1. Full-length blot images for Fig. 1

(A) Full-length images for CD9, CD81, and E1A shown in Fig. 1D. The dashed section has been cropped for each protein. (B) Full-length images for CD9 and E1A shown in Fig. 1H. The dashed section has been cropped for each protein.



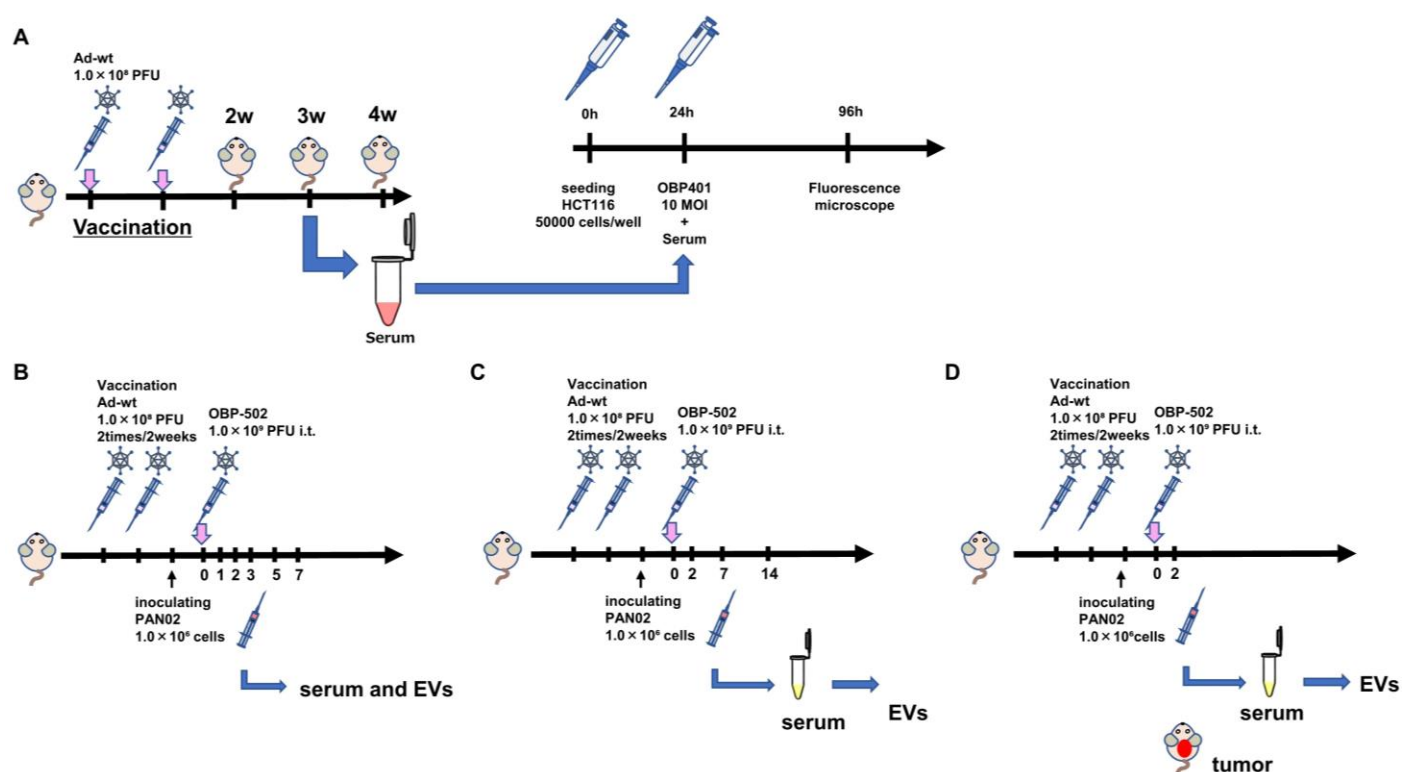
Supplementary Fig. S2. Supporting data for Fig. 2

Cell viability (line graph) was assessed in HCT116 cells treated with OBP-301 or OBP-502 in a time-dependent or dose-dependent manner ($n = 5$). E1A-DNA levels in EVs isolated from the culture media under the same conditions (dark bars) were measured by qPCR. E1A-DNA levels in EVs further purified using ExoCap, a reagent specifically designed for the isolation of EVs such as exosomes from EVs obtained by ultracentrifugation (light bars) were also measured by qPCR.



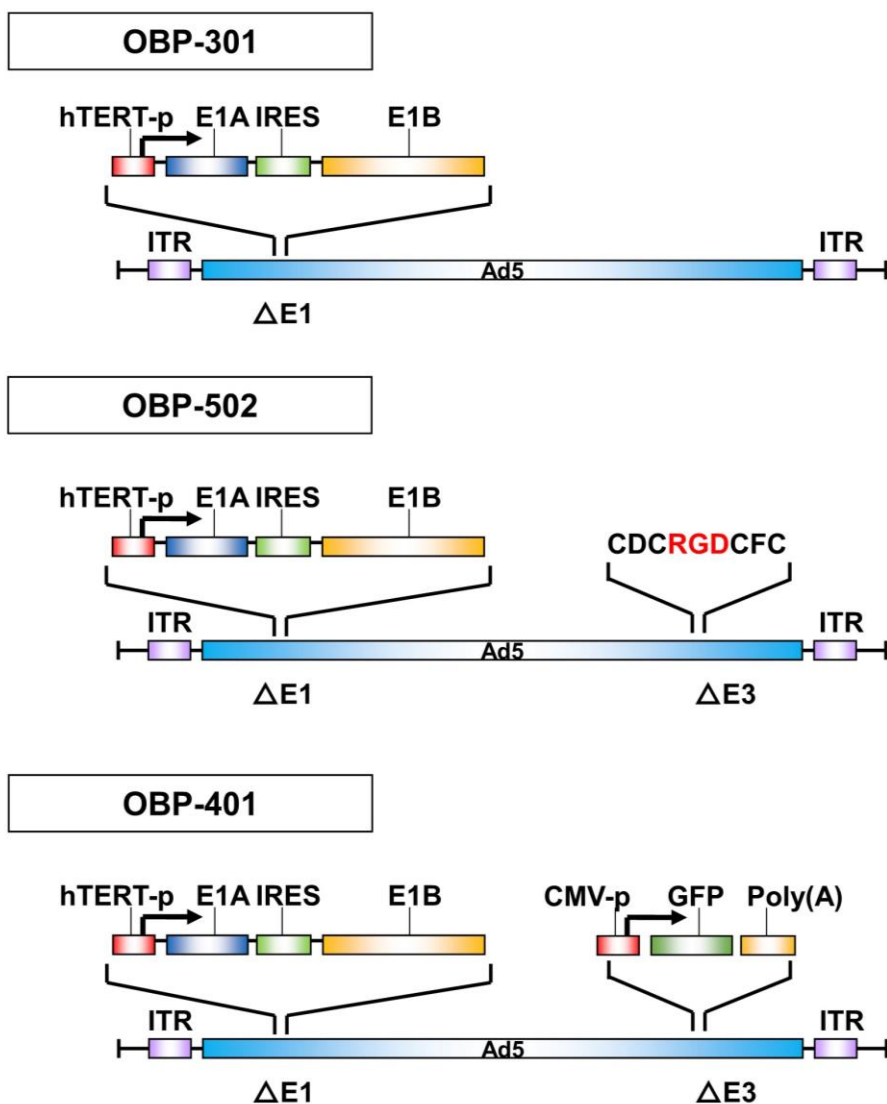
Supplementary Fig. S3. Supporting data for Fig. 3

(A) Schematic illustration of serum EV isolation methods from blood samples. (B) Study design of the experiment presented in Fig. 3D.



Supplementary Fig. S4. Supporting data for Fig. 4

(A) Study design of the experiment presented in Fig. 4A. (B) Study design of the experiment presented in Fig. 4B. (C) Study design of the experiment presented in Fig. 4C. (D) Study design of the experiment presented in Fig. 4E.



Supplementary Fig. S5. Gene structure of oncolytic adenoviruses