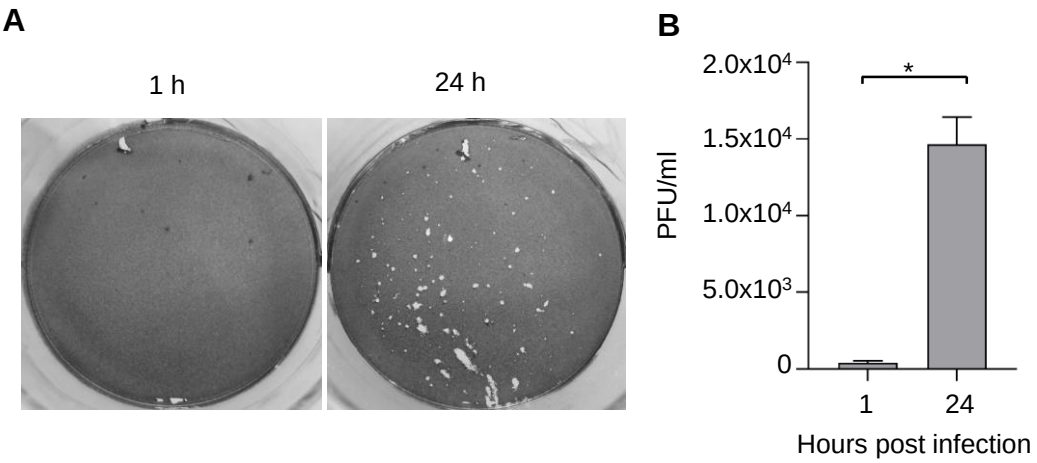

Figure S1. Infection of pDCs by EV71 is productive. (A) Purified pDCs were exposed to EV71 0804232Y and cell culture supernatants were collected at 1 hour and 24 hours post-infection. Subsequently, 293-hSCARB2 cells were infected with these collected supernatants, and the replication capacity of the newly formed virus was assessed using a plaque assay. (B) The data from the plaque assay is presented as the mean counts with standard error of the means (SEM) (n=2). Statistical analysis revealed a significant difference (*P<0.05) based on Student's t test.

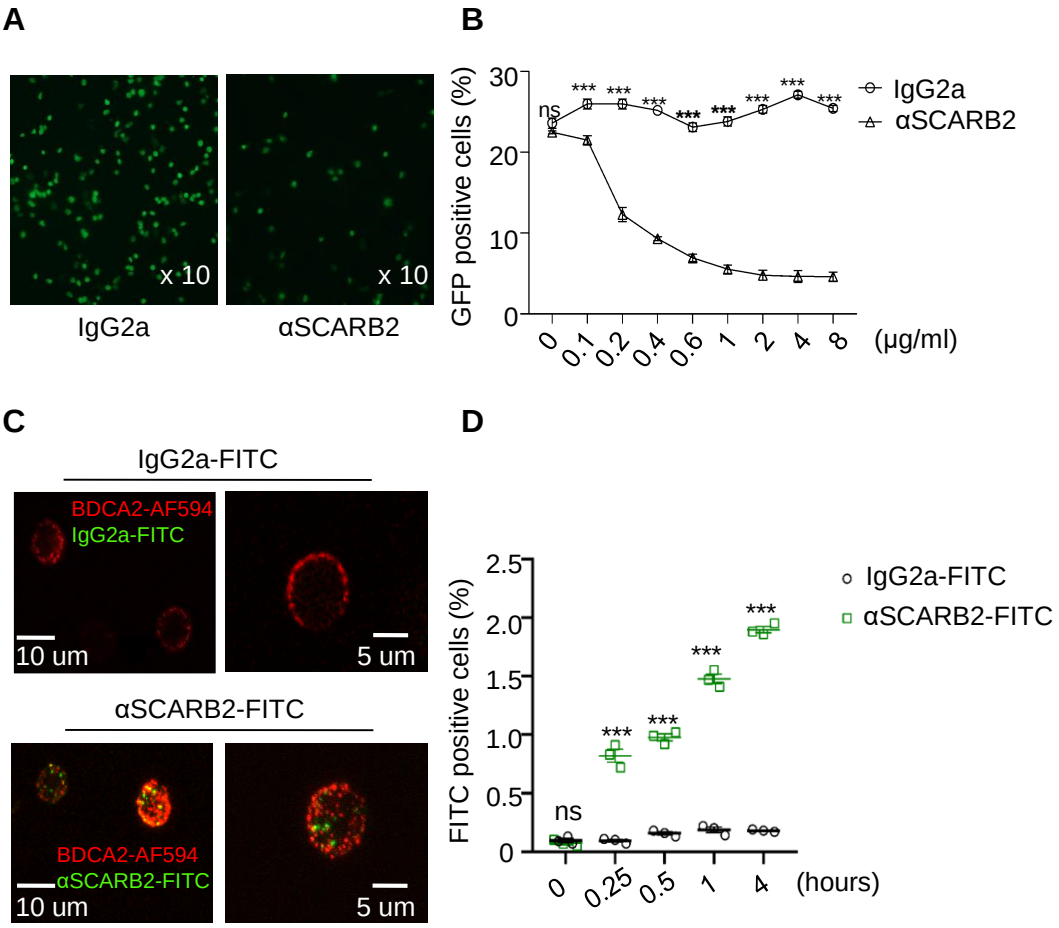

Figure S2. αSCARB2 inhibits EV71 infection. (A) Fluorescence microscopic images of 293-hSCARB2 cells pre-treated with 1 μg/ml αSCARB2 (right panel) or mouse IgG2a as an isotype control (left panel) were infected with EV71-GFP. (B) The percentage of GFP-positive cells among 293-hSCARB2 cells pre-treated with αSCARB2 (triangle) or the isotype control (circle) that were infected with EV71-GFP was determined. (C) Fluorescence microscopic images of purified pDCs pre-treated with 1 μg/ml αSCARB2-FITC (lower panel) or mouse IgG2a-FITC as an isotype control (upper panel) for 2 hours at 37° C, with BDCA2-AF594 as a surface marker of pDCs. (D) The percentage of FITC-positive cells among pDCs pre-treated with αSCARB2-FITC (square) or the isotype control (circle) for different time points at 37° C or 4° C. The data are presented as means ± SEMs from triplicate experiments. Statistical significance was determined as ***P<0.001 using Student's t test.

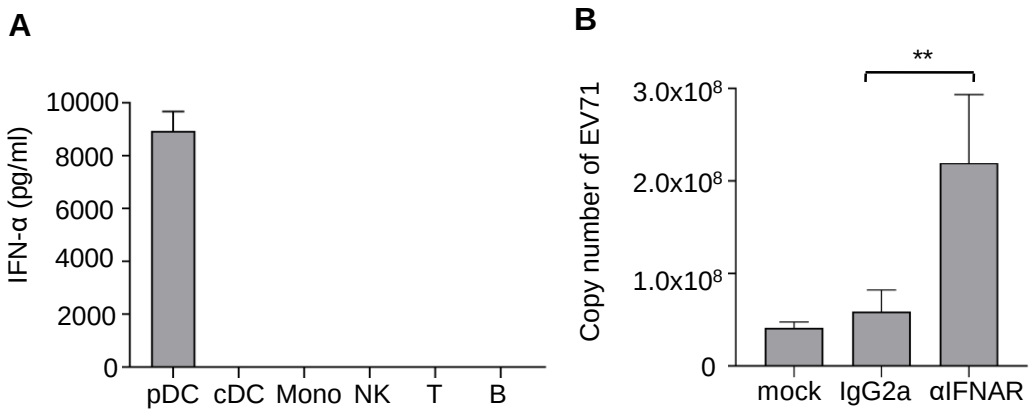

Figure S3. IFN-α production from pDCs controls EV71 infection. (A) Purified subsets of PBMCs were infected with EV71 0804232Y, and the expression of IFN-α at 24 hours post-infection was measured using ELISA. The data presented are the means ± SEMs of experiments performed in triplicate. (B) Purified pDCs that were pre-treated with αIFNAR, an isotype control, or left untreated, were infected with EV71 0804232Y. Viral RNA levels at 24 hours post-infection were quantified using real-time PCR (n≥2), and the data shown are means ± SEMs. Statistical analysis revealed significant differences (**P<0.01) based on Student's t test.

Supplementary Table 1. Primers used in this study.

Primers used for constructing EV71 cDNA clone.		
Primers	Forward (5’ – 3’)	Reverse (5’ – 3’)
EV71-F1	ACATGCATGCTAATACGACTCACTATAGGGTTAAAACAGCCTGTGGGTTG	GCTCTAGACTTTAACAGGATTTGCAAACTTG
TER-RZ-F	CGGGATCCGCTCTAGAGCACTGGTGGGGGTAAATT	AGGCCGCGGCAAAAAACCCCTCAAGACCC
EV71-F2	AGGCAAACAGAGTCTCAAGCA	GCTCTAGATCCAACCACAAGAGGTCCCT
EV71-F3	ATGGGCTCGTTGGCTTTGCA	GCTCTAGAACTGTCCTGCTTTAGTAGGAAA
EV71-F4	AGCCTACCCATCGCACCAT	GCTCTAGA$(T)_{52}$GCTATTCTGGTTATAACAAATTTACC
Primers used for mutant EV71 cDNA clone.		
Primers	Forward (5’ – 3’)	Reverse (5’ – 3’)
VP1	ATGCTGCCACAGCAGGCAAACAGA	ATAGCTTCTTCATCCAACCACAAGAGGT
VP1-EE	ACACCCACCGGGGAAGTTGTCCCA	ATTGTGGGACAACTTCCCCGGTGGGTGT
VP1-G	ACACCCACCGGGGGAGTTGTCCCA	ATTGTGGGACAACTCCCCCGGTGGGTGT
VP1-KE	TAGATCTCCCTCTTAAAGGCACAACTAAC	GTTAGTTGTGCCTTTAAGAGGGAGATCTA