

ESPS Peer-review Report

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Title: Non-transmissible Sendai virus vector encoding c-myc suppressor FBP-interacting repressor for cancer therapy

Reviewer code: 00632006

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CLASSIFICATION	LANGUAGE EVALUATION	RECOMMENDATION	CONCLUSION
<input type="checkbox"/> Grade A (Excellent)	<input type="checkbox"/> Grade A: Priority Publishing	Google Search:	<input type="checkbox"/> Accept
<input type="checkbox"/> Grade B (Very good)	<input type="checkbox"/> Grade B: minor language polishing	<input type="checkbox"/> Existed	<input type="checkbox"/> High priority for publication
<input type="checkbox"/> Grade C (Good)	<input type="checkbox"/> Grade C: a great deal of language polishing	<input type="checkbox"/> No records	<input type="checkbox"/> Rejection
<input type="checkbox"/> Grade D (Fair)	<input type="checkbox"/> Grade D: rejected	BPG Search:	<input type="checkbox"/> Minor revision
<input type="checkbox"/> Grade E (Poor)		<input type="checkbox"/> Existed	<input type="checkbox"/> Major revision
		<input type="checkbox"/> No records	

COMMENTS TO AUTHORS

1) There is no explanation about Fig. 1B in the text and the corresponding legend. 2) In page 12, the authors describe that they examined SeV/dF/GFP transduction efficiency using nine human and five tumor cell lines, but they intend not to present the data. Because the data seems to be very informative in case of clinical application of the virus for various tumors, the authors should present the results (probably as Supplementary data). 3) In Fig. 3B legend, there is no description about H₂O₂ experiment that must be a positive control. 4) In Fig. 4, although the authors state that they examined the effect of SeV/dF/FIR on the cell growth of SW480 cells, there is no data. It is required to demonstrate that SeV/dF/FIR actually reduce c-myc expression and induce apoptosis in tumors. What does the vertical axis of Figure 4A represent? The legend does not correspond to the panels. In the legend, +SD should be \pm SD, and SeV Δ F/FIR and SeV Δ F/GFF should be SeV/dF/FIR and SeV/dF/GFP, respectively. 5) In Fig. 5 legend, two days (72 hours) should be three days (72 hours). What does GL2 represent in Figure 5A? 5) In Figure S1, the authors describe that they observed complete regression of xenografted Yes-5 tumors after several injections of SeV/dF/FIR. Is this the only one case, or did they observe other similar cases? If this is due to some immunological effects as stated by the authors, other cases are supposed to be observed. If so, how much percentage? 6) The authors investigated endogenous FIR-interacting binding proteins (Table 1). This analysis is nice and provides valuable information about the FIR-binding proteins (although there is no verification). However, they state that they performed this analysis for avoiding unexpected side effects of SeV/dF/FIR in case of clinical use. It is unclear how the authors predict possible side effects and what conclusions they drew from these data. The authors should discuss this point. 7) In Figure S2,



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Flat C, 23/F., Lucky Plaza,
315-321 Lockhart Road,
Wan Chai, Hong Kong, China

FIR Δ N77 that lacks the repression domain still shows substantial repressive activity. How do the authors explain this activity? Is there other repression domain in the molecule? Also, it is obscure how the data is essential for demonstrating the therapeutic efficacy of SeV/dF/FIR. The authors should discuss these points.