Reviewer’s report

Title: The NF-kB p65 and p50 Homodimer Cooperate with IRF8 to Synergistically Activate iNOS Transcription

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Reviewer: Le Meng

Reviewer’s report:

The authors showed sufficient data to support their hypothesis and mechanistic model. I have several concerns listed below:

1. In result section "IFN# and TNF# synergistically induce iNOS expression in human colon carcinoma cells", due to the complex signaling network TNF# treatment can activate pathways other than NFkB. Did the author validate their data by inhibiting NFkB activity with expectation of blocking of iNOS expression?

2. In Fig 4C right panel, anti-p65 antibody incubation did not show super-shift band. But in Fig 6D both p65 and p50 antibodies show super-shift bands. How do the authors explain the difference? Another concern is that the authors did not show that unlabeled competing consensus DNA sequence can block the shift band.

3. In Fig 3A lower panel, the authors should show statistic significance of the synergistic effect.

4. In Fig 3C and 5C, can the authors add total STAT blot?

5. There is a typo in Fig 7B side legend of "IFN#" : the "I" is missing.

Level of interest: An article of importance in its field

Quality of written English: Acceptable

Statistical review: No, the manuscript does not need to be seen by a statistician.

Declaration of competing interests:

I declare that I have no competing interests.