Responses to Reviewer #2’s comments:

It is a good review that manages to give a general information of the subject matter and the effects in different type of tumor.

Major comments:

The authors have to use only "anti-cancer" or "anti tumor" word in the title and during the review because they have the same meaning!

Response: As reviewer’s suggestion, we only used "anti-cancer".

In order to improve the review we suggest to better discuss the examined compounds compared to those derived from brown seaweed. For example Fucoidan derived from the brown seaweed that also exhibits a significant anticancer activity against lung cell line (Han et al., 2008).

Response: As reviewer’s suggestion, we added “Anti-cancer effects were also demonstrated in the polysaccharides derived from other seaweed, especially fucoidan from brown seaweed. Anti-cancer activity of fucoidans were reported in many types of cancers, such as lung cancer [26, 27], gastric cancer [26], breast cancer [28], liver cancer HepG2 cell [29]” in line 132-135 and related references.

Minor comments:

line 316 we suggest to summarize the sentence........which had been damaged by drugs reducing side effect

Response: As reviewer’s suggestion, we added “such as increasing the weight of the spleen, activating lymphocyte proliferation, recovering the level of TNF-α, and so on”.

line 217 We suggest to remove the last sentence line 317-319

Response: Done accordingly.
line 131 Remove AND at the beginning of the line

Response: Done accordingly.

line 231 Remove Also

Response: Done accordingly.