



PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 56608

Title: Dual targeting PLK1 and BIRC5 in TP53-mutated hepatocellular carcinoma

Reviewer's code: 00504882

Position: Editorial Board

Academic degree: PhD

Professional title: Professor

Reviewer's Country/Territory: United States

Author's Country/Territory: China

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Reviewer chosen by: AI Technique

Reviewer accepted review: 2020-05-07 14:21

Reviewer performed review: 2020-05-18 15:30

Review time: 11 Days and 1 Hour

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Very good <input type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
Language quality	<input type="checkbox"/> Grade A: Priority publishing <input checked="" type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
Conclusion	<input type="checkbox"/> Accept (High priority) <input type="checkbox"/> Accept (General priority) <input checked="" type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Re-review	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Peer-reviewer statements	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No



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SPECIFIC COMMENTS TO AUTHORS

The title of the manuscript is appropriate to the subject matter discussed in the paper. The authors have used the TCGA HCC dataset to find out the expression level of PLK1 and BIRC5 in a total of 374 HCC data sets. Authors found that both PKL1 and BRIC5 overexpressed in a subset of HCC data set. They discovered that co-expression of these proteins is frequently detected in HCC with p53 mutation, which also correlated with poor clinical outcome. They went on to use inhibitors of either PKL1 or BRIC5 to target Huh7 carrying Y220C mutation effectively, but HepG2 cell with WTp53 was not affected. Specific comments: 1. What is the expression status of these proteins in HCC tumors having wild type p53? 2. HuH7 carries a p53 mutation. The mutant p53 is not inactive in HuH7 cells (<http://dx.doi.org/10.1128/JVI.00729-15>). 3. Do these proteins have an inhibitory effect on p53 function? Inhibition of either of these proteins may activate p53 function and induce apoptosis. 4. Protein-protein interaction between these protein and wild type p53 should be done using immunoprecipitation and Western blotting. 5. The status of other proteins such as FuBP1 which is overexpressed in 80 % of HCC tumors with CHC background, and strongly inhibits p53 function.