

PEER-REVIEW REPORT

Name of journal: *World Journal of Gastrointestinal Oncology*

Manuscript NO: 78826

Title: Droplet digital polymerase chain reaction assay for methylated ring finger protein 180 in gastric cancer

Provenance and peer review: Unsolicited manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 06143468

Position: Peer Reviewer

Academic degree: MD

Professional title: Associate Professor

Reviewer's Country/Territory: Spain

Author's Country/Territory: China

Manuscript submission date: 2022-07-20

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-07-26 00:12

Reviewer performed review: 2022-08-08 10:24

Review time: 13 Days and 10 Hours

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 Grade E: Do not publish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="radio"/>] Anonymous [<input type="radio"/>] Onymous Conflicts-of-Interest: [<input type="radio"/>] Yes [<input checked="" type="radio"/>] No
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SPECIFIC COMMENTS TO AUTHORS

Hypermethylation in the promoter region is the main mechanism of downregulation or silencing of RNF180 expression in tumors. The primary screening methods for GC in the clinic are upper gastrointestinal X-ray examination, gastrointestinal endoscopy, Helicobacter pylori antibody detection and plasma pepsinogen detection. ddPCR is a novel absolute quantitative technique that divides the reaction system into thousands of units. In this study, the authors used ddPCR to quantify the methylation level of the RNF180 gene. The study is very well designed and the manuscript is very well written. The methods are described in detail, the results are well displayed. Minor comments: 1. Some minor editing is required. 2. Table 1 should be re-arranged. 3. References should be edited and updated.

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Reviewer's code: 06143408

Position: Peer Reviewer

Academic degree: MD, PhD

Professional title: Assistant Professor

Reviewer's Country/Territory: Austria

Author's Country/Territory: China

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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

In this study, methylation level of the RN180 gene was quantified by droplet digital PCR. The study is well performed, and the results are interesting. The reviewer recommends to accept this study after a minor editing.

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Position: Peer Reviewer

Academic degree: MD

Professional title: Doctor

Reviewer's Country/Territory: Australia

Author's Country/Territory: China

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SPECIFIC COMMENTS TO AUTHORS

RNF180 affects many important physiological processes in vivo, including cell growth, differentiation, and tumorigenesis. RNF180 is expressed at low levels in gastric cancer tissue samples, and it is particularly crucial to the gastric cancer pathological stage and overall survival of patients. This is an interesting study about the methylation level of the RNF180 gene in gastric cancer. The study is very interesting. The authors should take attention about the abbreviations and some spelling mistakes. Thank you.