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PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 62645

Title: Abelson interactor 1 splice isoform-L plays an anti-oncogenic role in colorectal carcinoma through interactions with WAVE2 and full-length Abelson interactor 1

Reviewer's code: 05492008
Position: Peer Reviewer
Academic degree: MD
Professional title: Professor
Reviewer's Country/Territory: Germany
Author's Country/Territory: China

Manuscript submission date: 2021-01-21
Reviewer chosen by: AI Technique
Reviewer accepted review: 2021-01-26 10:56
Reviewer performed review: 2021-02-01 04:21
Review time: 5 Days and 17 Hours

Scientific quality	[Y] Grade A: Excellent [ ] Grade B: Very good [ ] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish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

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SPECIFIC COMMENTS TO AUTHORS

Colorectal cancer (CRC) is the third most commonly diagnosed cancer and the fourth most common cause of cancer death. Despite treatment advances for CRC over the past decades, novel molecular therapeutic strategies are required to generate informative biomarkers and identify new targets. In this study, authors generated PCR primers capable of specific detection of the ABI1-SiL isoform. Furthermore, compared with ABI1-p65, expression of ABI1-SiL is significantly decreased in colorectal cancer tissues and cell lines, and over expression of ABI1-SiL represses migration and adhesion in SW480 colon cancer cells. Based on their findings, both ABI1-p65 and ABI1-SiL are able to interact and co-localize with WAVE2 and ABI1-p65 in SW480 cells. Authors are commended for their extensive and well carried out study and offering a putative biomarker and novel therapeutic target for colon cancer.

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PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 62645

Title: Abelson interactor 1 splice isoform-L plays an anti-oncogenic role in colorectal carcinoma through interactions with WAVE2 and full-length Abelson interactor 1

Reviewer's code: 05492015
Position: Peer Reviewer
Academic degree: MD
Professional title: Doctor
Reviewer's Country/Territory: Japan
Author's Country/Territory: China

Manuscript submission date: 2021-01-21
Reviewer chosen by: AI Technique
Reviewer accepted review: 2021-01-21 10:58
Reviewer performed review: 2021-02-02 10:13
Review time: 11 Days and 23 Hours

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

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SPECIFIC COMMENTS TO AUTHORS

In this study, the authors investigate the role and mechanism of ABI1-SiL in the metastatic behavior of colorectal cancer cells. Mechanistically, they showed that ABI1-SiL played a key role in cell surface area, adhesion, and migration, but not proliferation and apoptosis in SW480 cells. The study also showed that ABI1-SiL may have anti-oncogenic roles by competitively binding to WAVE2, and directly interacting with phosphorylated and non-phosphorylated ABI1-p65, functioning as a dominant-negative molecule towards ABI1-p65. The results are interesting and add valuable knowledge to CRC. I would suggest it publish in WJG if the authors can address the following concerns. 1. The manuscript needs to be carefully checked. For example: Both colorectal carcinoma (CC) and colorectal cancer (CRC) appear in the text and need to be unified. In addition, the abbreviations that have been defined in the article can be used directly after appearing, and there is no need to list them again. 2. In Figure 8 I can clearly see that in the immunofluorescence staining, the red and green markers are different markers because their staining parts are different. However, in Figure 9, it seems that the red and green parts overlap greatly. Why is this? 3. Fig 2D,E and Fig 6B which should be replaced by new one is too difficult to distinguish; 4. The words in brackets in Figure 9A and C are GFP, and the words in brackets in Figure 9G are green. Is there an error? 5. The discussion part can be more comprehensive, authors could discuss the limitations of the current research or the regrets so far and what kind of follow-up research can be carried out in the future.

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PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 62645

Title: Abelson interactor 1 splice isoform-L plays an anti-oncogenic role in colorectal carcinoma through interactions with WAVE2 and full-length Abelson interactor 1

Reviewer's code: 05492010
Position: Peer Reviewer
Academic degree: MD
Professional title: Doctor
Reviewer's Country/Territory: Germany
Author's Country/Territory: China

Manuscript submission date: 2021-01-21
Reviewer chosen by: AI Technique
Reviewer accepted review: 2021-01-21 10:59
Reviewer performed review: 2021-02-02 10:16
Review time: 11 Days and 23 Hours

Scientific quality	[ ] Grade A: Excellent [Y] Grade B: Very good [ ] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish
Language quality	[Y] Grade A: Priority publishing [ ] Grade B: Minor language polishing [ ] Grade C: A great deal of language polishing [ ] Grade D: Rejection
Conclusion	[ ] Accept (High priority) [ ] Accept (General priority) [Y] Minor revision [ ] Major revision [ ] Rejection
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SPECIFIC COMMENTS TO AUTHORS

The article with the title "ABI1 splice isoform-L (ABI1-SiL) plays an anti-oncogenic role in colorectal carcinoma through interactions with WAVE2 and full-length ABI1" is in generally well done. Title: Appropriate. It reflects the main content of the research. Autorship: Is correct. Institutions: are correct ORCID number is correct Authors contribution is correct Abstract. Is a structured abstract according to the required format. In 288 words authors showed a summary of the content of the manuscript. Key words: 5 that reflect the content of the study. Core Tip: In 71 words author reflect properly aspects that should call attention to the readers Background: It is a basic study with a high importance for the clinical practice. Colorectal cancer is a common disease and important cause of cancer-related mortality. Method: Authors made the detailed description of the investigations. Results: Authors demonstrated that overexpression of ABI1-SiL in SW480 cells significantly increases the cell surface area and inhibits the adhesive and migration properties of the cells, but does not alter their invasive capacity. Discussion: Authors made a detailed an informative discussion of the results. Illustrations: They show 9 figures with their corresponding legend. All figures are showing clearly making and adequate support of the results. Biostatistics: This work met the requirements of biostatistics. References: Authors cited properly actualized references of high interest for their propose in introduction and discussion Organization of the study: It was properly organized Research method reporting. As a basic study it have been reported according with the corresponding guidelines Comments to the author. In this manuscript authors confirmed the hypotheses that ABI1-SiL may have anti-oncogenic roles by competitively binding to WAVE2, and directly interacting with phosphorylated and non-phosphorylated ABI1-p65, functioning as a dominant-negative molecule towards ABI1-p65. This was recognized by authors as a point of

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recommendation for the future.