

PEER-REVIEW REPORT

Name of journal: *World Journal of Gastrointestinal Oncology*

Manuscript NO: 85088

Title: Osteopontin promotes gastric cancer progression via PI3K/ AKT/ mTOR signaling pathway

Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 02536288

Position: Editorial Board

Academic degree: MD, PhD

Professional title: Associate Professor, Research Scientist, Senior Lecturer

Reviewer's Country/Territory: Russia

Author's Country/Territory: China

Manuscript submission date: 2023-04-11

Reviewer chosen by: Geng-Long Liu

Reviewer accepted review: 2023-05-22 14:32

Reviewer performed review: 2023-05-24 09:00

Review time: 1 Day and 18 Hours

Scientific quality	<input checked="" type="radio"/> Grade A: Excellent <input type="radio"/> Grade B: Very good <input type="radio"/> Grade C: Good <input type="radio"/> Grade D: Fair <input type="radio"/> Grade E: Do not publish
Novelty of this manuscript	<input checked="" type="radio"/> Grade A: Excellent <input type="radio"/> Grade B: Good <input type="radio"/> Grade C: Fair <input type="radio"/> Grade D: No novelty
Creativity or innovation of this manuscript	<input checked="" type="radio"/> Grade A: Excellent <input type="radio"/> Grade B: Good <input type="radio"/> Grade C: Fair <input type="radio"/> Grade D: No creativity or innovation

Scientific significance of the conclusion in this manuscript	<input checked="" type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No scientific significance
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

SPECIFIC COMMENTS TO AUTHORS

Hello Thank you for interesting manuscript. I have only two points: 1. Please include information from studies in introduction or discussion^ Di Bartolomeo M, Pietrantonio F, Pellegrinelli A, Martinetti A, Mariani L, Daidone MG, Bajetta E, Pelosi G, de Braud F, Floriani I, Miceli R. Osteopontin, E-cadherin, and β -catenin expression as prognostic biomarkers in patients with radically resected gastric cancer. *Gastric Cancer*. 2016 Apr;19(2):412-420. doi: 10.1007/s10120-015-0495-y. Epub 2015 Apr 11. PMID: 25862567. Cao DX, Li ZJ, Jiang XO, Lum YL, Khin E, Lee NP, Wu GH, Luk JM. Osteopontin as potential biomarker and therapeutic target in gastric and liver cancers. *World J Gastroenterol*. 2012 Aug 14;18(30):3923-30. doi: 10.3748/wjg.v18.i30.3923. PMID: 22912540; PMCID: PMC3419986. 2. Do you perform or planned to perform multivariate mathematical model to prognostic analysis of the osteopontin expression in GC progression? If YES, it will be great to include it in manuscript.

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Title: Osteopontin promotes gastric cancer progression via PI3K/ AKT/ mTOR signaling pathway

Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 00069774

Position: Editorial Board

Academic degree: PhD

Professional title: Associate Professor

Reviewer's Country/Territory: Thailand

Author's Country/Territory: China

Manuscript submission date: 2023-04-11

Reviewer chosen by: Geng-Long Liu

Reviewer accepted review: 2023-06-23 02:37

Reviewer performed review: 2023-06-27 04:12

Review time: 4 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
Novelty of this manuscript	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No novelty
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	Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

Manuscript verified the important role of OPN in gastric cancer in cell growth and migration/invasion in gastric cancer cells. Works nicely showed the relationship of the levels of expression of OPN and cell proliferation, whereas knockdown of OPN suppressed cell proliferation and migration/invasion. Experiments are well designed and results are well presented. Interpretation and conclusion are consistent with their results. The role of OPN in cancer via PI3K/Akt pathway has been well reported in many cancers. This manuscript supports previous studies that OPN also plays important role in gastric cancer. Some comments are as follows. 1. Knockdown experiment in this manuscript was performed by shRNA or siRNA, since shRNA is usually a single strand RNA. 2. In Fig.2A, the image did not reveal anything, please edit to present the comparison between groups of transfection. 3. To make the interpretation more complete about the signaling via PI3K/Akt/mTOR, western blot should be performed with phosphor-mTOR along with other kinases.