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PEER-REVIEW REPORT

Name of journal: World Journal of Biological Chemistry

Manuscript NO: 50153

Title: Complex interactomes and post-translational modifications of the regulatory proteins HAB and SERB Y suggest pleiotropic cellular functions

Reviewer's code: 02447901
Position: Associate Editor
Academic degree: PhD
Professional title: Doctor, Professor, Research Fellow
Reviewer's country: Taiwan
Author's country: Brazil

Reviewer chosen by: Jia-Ping Yan
Reviewer accepted review: 2019-08-05 23:36
Reviewer performed review: 2019-08-07 02:30
Review time: 1 Day and 2 Hours

SCIENTIFIC QUALITY	LANGUAGE QUALITY	CONCLUSION	PEER-REVIEWER STATEMENTS
[ ] Grade A: Excellent	[Y] Grade A: Priority publishing	[ ] Accept (High priority)	Peer-Review:
[ ] Grade B: Very good	[ ] Grade B: Minor language polishing	[ ] Accept (General priority)	[Y] Anonymous
[Y] Grade C: Good	[ ] Grade C: A great deal of language polishing	[Y] Minor revision	[ ] Onymous
[ ] Grade D: Fair	[ ] Grade D: Rejection	[ ] Major revision	Peer-reviewer's expertise on the topic of the manuscript:
[ ] Grade E: Do not publish		[ ] Rejection	[ ] Advanced
			[Y] General
			[ ] No expertise
			Conflicts-of-Interest:
			[ ] Yes
			[Y] No

SPECIFIC COMMENTS TO AUTHORS

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HABP4 and SERBP1 show high identity and similarity in amino acid sequence, indicating their similar or redundant biological functions. In fact, many aspects determine protein function. In this review manuscript, a series of determining factors were highlighted and compared to show biological relevance of HABP4 and SERBP1. HABP4 and SERBP1 belong to family of intrinsically unstructured proteins. Therefore, post-translational modifications play pivotal roles in dynamic protein structures and accompanied interacting protein partners resulting in alteration of subcellular distribution and biological functions. The sturctural features, post-translational modifications, subcellular localization, and functional aspects of HABP4 and SERBP1 were clearly described in current manuscript. The contents of current manuscript provided valuable information in comprehensive understanding of those background and concepts. Only minor comments were appended for a better reading and understanding. 1. Figure 2 showed schematic view of putative residues of post-translational modifications. Another figure showing accompanied biological functions of those post-translational modifications or merging into figure 2 is recommended. 2. Protein binding partners are critical base for bioinformatic prediction of potential protein function. The potential or proposed biological consequences of protein network of HABP4 and SERBP1 are recommended to be provided. 3. HABP4 and SERBP1 have been implicated in malignant process of cancer. Thus, their prognostic roles are highly recommended.

INITIAL REVIEW OF THE MANUSCRIPT

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PEER-REVIEW REPORT

Name of journal: World Journal of Biological Chemistry

Manuscript NO: 50153

Title: Complex interactomes and post-translational modifications of the regulatory proteins HAB and SERB Y suggest pleiotropic cellular functions

Reviewer's code: 02932624
Position: Editorial Board
Academic degree: MD, PhD
Professional title: Senior Scientist
Reviewer's country: Singapore
Author's country: Brazil
Reviewer chosen by: Jia-Ping Yan
Reviewer accepted review: 2019-08-06 00:02
Reviewer performed review: 2019-08-08 01:25
Review time: 2 Days and 1 Hour

SCIENTIFIC QUALITY	LANGUAGE QUALITY	CONCLUSION	PEER-REVIEWER STATEMENTS
[ ] Grade A: Excellent	[ ] Grade A: Priority publishing	[ ] Accept (High priority)	Peer-Review:
[ ] Grade B: Very good	[Y] Grade B: Minor language polishing	[ ] Accept (General priority)	[Y] Anonymous
[Y] Grade C: Good	[ ] Grade C: A great deal of language polishing	[ ] Minor revision	[ ] Onymous
[ ] Grade D: Fair	[ ] Grade D: Rejection	[Y] Major revision	Peer-reviewer's expertise on the topic of the manuscript:
[ ] Grade E: Do not publish		[ ] Rejection	[ ] Advanced
			[Y] General
			[ ] No expertise
			Conflicts-of-Interest:
			[ ] Yes
			[Y] No

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In this review, Colleti C, et al, systematically reviewed HABP4 and SERBP1 proteins from structure, subcellular localization, post-translational modification (PTM), regulatory network, and their roles in cancer. It is a fairly comprehensive and well-written review. I have two major suggestions. 1. The description of phosphorylation modification is relative less when compared to other PTM. 2. The figure resolution appears poor, especial Figure 3 and 4.

INITIAL REVIEW OF THE MANUSCRIPT

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PEER-REVIEW REPORT

Name of journal: World Journal of Biological Chemistry

Manuscript NO: 50153

Title: Complex interactomes and post-translational modifications of the regulatory proteins HAB and SERB Y suggest pleiotropic cellular functions

Reviewer's code: 03478635
Position: Editorial Board
Academic degree: PhD

Professional title: Senior Research Fellow

Reviewer's country: Japan

Author's country: Brazil

Reviewer chosen by: Jia-Ping Yan

Reviewer accepted review: 2019-08-08 02:28

Reviewer performed review: 2019-08-08 07:13

Review time: 4 Hours

SCIENTIFIC QUALITY	LANGUAGE QUALITY	CONCLUSION	PEER-REVIEWER STATEMENTS
[ ] Grade A: Excellent	[Y] Grade A: Priority publishing	[ ] Accept (High priority)	Peer-Review:
[ ] Grade B: Very good	[ ] Grade B: Minor language polishing	[ ] Accept (General priority)	[Y] Anonymous
[Y] Grade C: Good	[ ] Grade C: A great deal of language polishing	[Y] Minor revision	[ ] Onymous
[ ] Grade D: Fair	[ ] Grade D: Rejection	[ ] Major revision	Peer-reviewer's expertise on the topic of the manuscript:
[ ] Grade E: Do not publish		[ ] Rejection	[ ] Advanced
			[Y] General
			[ ] No expertise
			Conflicts-of-Interest:
			[ ] Yes
			[Y] No

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This study describes about the interactomes for HABP4 and SERBP1. The scale bar and arrows for Ki-1 staining may be added for figure 5. It seems that some references are not cited in the text. Please re-check the references.

INITIAL REVIEW OF THE MANUSCRIPT

Google Search:

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[ ] Plagiarism

[Y] No

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[Y] No