

Stepwise transmigration of T and B cells through a perivascular channel in high endothelial venules

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(Note: With the exception of the correction of typographical or spelling errors that could be a source of ambiguity, letters and reports are not edited. The original formatting of letters and referee reports may not be reflected in this compilation.)

Please note that the manuscript was reviewed at Review Commons and these reports were taken into account in the decision-making process at Life Science Alliance.



May 27, 2021

RE: Life Science Alliance Manuscript #LSA-2021-01086-T

Prof. Pilhan Kim
Korea Advanced Institute of Science and Technology
Graduate School of Nanoscience and Technology, Korea Advanced Institute of Science and Technology
291 Daehak-ro
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Dear Dr. Kim,

Thank you for submitting your revised manuscript entitled "Stepwise transmigration cascade of T and B cells through the perivascular channel in lymph node high endothelial venules". We would be happy to publish your paper in Life Science Alliance pending text revisions to acknowledge Reviewer 3's remaining concern about the possible interference of Sodium Azide in lymphocyte migration, and final revisions necessary to meet our formatting guidelines.

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- please add callouts for Figures 3A; S1A, B; S2A-C; S3B-F; S5A; S6A-C; S9D; S10A, B; movie S1 to your main manuscript text
- please revise the inset position in Figure 5C so that they match the zoomed-in parts
- please add scale bars in Figure S10B

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Thank you for your attention to these final processing requirements. Please revise and format the manuscript and upload materials within 7 days.

Thank you for this interesting contribution, we look forward to publishing your paper in Life Science Alliance.

Sincerely,

Shachi Bhatt, Ph.D.
Executive Editor

Reviewer #1 (Comments to the Authors (Required)):

This is an interesting, well executed study that makes a significant contribution to understanding lymphocyte recruitment and entry into lymph nodes. I am happy with the Authors responses and amendments to the paper. I recommend publication without further changes.

Reviewer #2 (Comments to the Authors (Required)):

The authors have adequately addressed my questions. I have no further comments.

Reviewer #3 (Comments to the Authors (Required)):

Unfortunately, authors failed to reply adequately to the point I raised, which is the following. The only antibody blocking experiments they performed to obtain mechanistic insights was by the use of commercially available monoclonal antibodies, all of which unfortunately contained a preservative, sodium azide, which potentially blocks lymphocyte migration in vivo (Freitas AA & Bognacki J, Immunol 36:247, 1979). Therefore, the results of these antibody blocking experiments cannot be taken at face value.

June 9, 2021

RE: Life Science Alliance Manuscript #LSA-2021-01086-TR

Prof. Pilhan Kim
Korea Advanced Institute of Science and Technology
Graduate School of Nanoscience and Technology, Korea Advanced Institute of Science and Technology
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Korea, Republic of

Dear Dr. Kim,

Thank you for submitting your Research Article entitled "Stepwise transmigration of T and B cells through a perivascular channel in high endothelial venules". It is a pleasure to let you know that your manuscript is now accepted for publication in Life Science Alliance. Congratulations on this interesting work.

The final published version of your manuscript will be deposited by us to PubMed Central upon online publication.

Your manuscript will now progress through copyediting and proofing. It is journal policy that authors provide original data upon request.

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Again, congratulations on a very nice paper. I hope you found the review process to be constructive and are pleased with how the manuscript was handled editorially. We look forward to future exciting

submissions from your lab.

Sincerely,

Eric Sawey, PhD
Executive Editor
Life Science Alliance
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