Reviewer’s report

Title: CD1d- and PJA2-related immune microenvironment differs between invasive breast carcinomas with and without a micropapillary feature.

Version: 0 Date: 10 Sep 2018

Reviewer: Reviewer 2

Reviewer's report:

PEER REVIEWER COMMENTS: To view the full report from the academic peer reviewer, please see the attached file.

REVIEWER COMMENTS FROM REPORT: Overall, the study is quite interesting, as it tackles a rare form of breast cancer, i.e. invasive micro papillary carcinoma. The techniques that the authors have chosen are well suited to reach their aims. In general, the study has been done according to best research practice, however, there are some issues that need to be addressed.

ADDITIONAL REQUESTS/SUGGESTIONS:

In my opinion, the main problem of this manuscript is that the microarray data presented in Table 1 and 2 apparently only refer to two patients, that are obviously too few. The authors have then performed a comprehensive immunohistochemical analysis on a much larger cohort of patients, however, the problem with the microarray data still remains. Therefore, in my opinion, the number of patients analyzed by microarrays should be increased. I have also some doubts about the presentation of data in Tables. It might be OK for Table 1, but Table 2 is too long and could confuse the readers. Maybe a heat map could be more effective here. Supplementary Table S1, as it is organized now, is useless, it could only be read on a computer with a big screen and at a large magnification. Scale bars should be added to both Fig. 1 and 2.

Are the methods appropriate and well described?
If not, please specify what is required in your comments to the authors.

No

Does the work include the necessary controls?
If not, please specify which controls are required in your comments to the authors.

No
Are the conclusions drawn adequately supported by the data shown?
If not, please explain in your comments to the authors.

No

Are you able to assess any statistics in the manuscript or would you recommend an additional statistical review?
If an additional statistical review is recommended, please specify what aspects require further assessment in your comments to the editors.

Not relevant to this manuscript

Quality of written English
Please indicate the quality of language in the manuscript:

Acceptable

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