Reviewer’s report

Title: The human complement inhibitor Sushi Domain-Containing Protein 4 (SUSD4) expression in tumor cells and CD8+ T cells is associated with better prognosis of breast cancer patients.

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Reviewer: Wenling Han

Reviewer’s report:

This paper shows that human SUSD4 expression in tumor cells and CD8+ T cells is associated with better prognosis of breast cancer patients. These findings provide novel clues into the function of SUSD4 in breast cancer. However, there are also several deficiencies as noted below, which the authors should address before further consideration.

(1) For Figure 2, qPCR and FACS analyses indicates that the expression level of SUSD4 in the MDA-MB-231 cells is higher than that in BT20 cells, which is not consistent with the result of western blot. The author should provide control protein such as beta-actin to normalize it in western blot.

(2) For Figure 3, the results of the original picture of cell migration and invasion should be provided.

(3) The quality of Figure 4 needs to be improved.

(4) For Figure 5b, some cells are SUSD4 positive but CD8 negative; For Figure 5c, the mRNA expression level of SUSD2 in CD4+T cells is higher than that in CD8+T cells. Therefore, CD4 should be analyzed in Figure 5b and SUSD2 should also be analyzed at protein level in Figure 5c.

Level of interest: An article whose findings are important to those with closely related research interests

Quality of written English: Acceptable

Statistical review: Yes, but I do not feel adequately qualified to assess the statistics.

Declaration of competing interests:

I declare that I have no competing interests