Reviewer’s report

Title: Up-regulated expression of type II very low density lipoprotein receptor correlates with cancer metastasis and has a potential link to beta-catenin in different cancers

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Reviewer: Takumi Yamabuki

Reviewer’s report:

-Major Compulsory Revisions

1. Lung cancer samples were used for IHC (24 cases) and Western blot analysis (51 cases). The author should show their pathological diagnosis, for example adenocarcinoma, squamous cell carcinoma, small cell carcinoma, in the part of methods and should summarize in the Table 1 and Table 4.

2. In the Figure 4A and 4C, #-catenin expression didn’t correlate with VLDLR II expression in lung cancer. How about a subgroup analysis by pathological diagnosis grouping?

3. In the Table 2, Table 3 and Table 4, the author described “TNM stage” at the bottom of the table. The “T category” means the extent of the tumor (T1 to T4), and it’s not the stage grouping (stage I to stage IV). So, it would be better to change “TNM stage” to “TNM classification”. In addition, T2 means the tumor more than 2cm but not more than 5cm in greatest dimension in the breast tumors. In the Table 3, the number of patients whose T category was T1-T2 (<5cm) was 24, but the number of patients whose tumor size was not more than 2cm was 25. The author should check them and remake the Table 3.

4. How was the expression of full-length VLDLR in the clinical samples of gastric, breast and lung cancer? Are there any data that you have examined? Are there any studies about it? The author should discuss this point.

-Minor Essential Revisions

1. The author should correct spelling mistakes. Western bolt analysis (page 6, bottom), Western bolt (page 11, line 6)

Level of interest: An article of importance in its field

Quality of written English: Acceptable

Statistical review: No, the manuscript does not need to be seen by a statistician.
Declaration of competing interests:

I declare that I have no competing interests.