Reviewer’s report

Title: The Autophagy GABARAPL1 gene is Epigenetically Regulated in Breast Cancer Models.

Version: 2
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Reviewer: Jianhua Zhang

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Hervouet et al demonstrated that a specific decrease of GABARAPL1 expression was associated with both DNA methylation and histone deacetylation and that CREB-1 recruitment on GABARAPL1 promoter was required for GABARAPL1 expression. In general, the experiments were well planned and data well presented.

Minor concerns:
1. Line 260: Loss of global DNA methylation in several tissues (Fig. 2A). it is unclear how Fig.2A illustrates this point.
2. Line 333: “Although our results suggest that GABARAPL1 protein expression was also increased in MDA-MB-453 cells, the GABARAPL1 content was too low to be quantified.” This is confusing. How can the results suggest an increase when it was too low to be quantified?
3. BECN-1 rather than BECLIN-1
4. There are a few places where the English usage was unusual and needs attention and/or clarification. For example:
   a. Line 50: organites -- organelles.
   b. Line 54: even if it is currently admitted—even though evidence indicated
   c. Line 78: it is now admitted—it is now recognized.

Level of interest: An article of outstanding merit and interest in its field

Quality of written English: Needs some language corrections before being published

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

Declaration of competing interests:

no competing interests