Reviewer’s report

Title: MGAT1 is a novel transcriptional target of Wnt/β-catenin signaling pathway

Version: 0 Date: 04 Sep 2017

Reviewer: Christina Annunziata

Reviewer’s report:

SUMMARY:

This study shows that MGAT1 is important in the oncogenic effects of Wnt signaling. The authors previously reported that this gene is upregulated with constitutive activation of the Wnt pathway. In this report, they demonstrate functional consequences of MGAT1 upregulation, including migration, proliferation, and tumor growth in nude mice.

COMMENTS:

1. Grammar should be improved in several instances throughout the manuscript.

2. Western blots in Figure 1B and 1C should be quantified, normalized to loading control, and repeated for statistical analysis (p-value) of comparisons being made.

3. Figure 2, and Figure 4B - please describe the number of replicates, and include statistical description of differences between the conditions.

4. Figure 5C - this would be better shown as a dot plot with the individual values shown. Please also perform appropriate statistical test to compare the two groups.

5. Please expand the discussion section to relate the findings to the literature.

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.

Yes

Are the conclusions drawn adequately supported by the data shown?
If not, please explain in your comments to the authors.

Yes
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.

I am able to assess the statistics

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

Needs some language corrections before being published

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