Reviewer's report

Title: Rab11 Regulates E-cadherin Expression and Induces Cell Transformation in Colorectal Carcinoma

Version: 1 Date: 20 March 2014

Reviewer: Noriyuki Nishimura

Reviewer's report:

“Rab11 regulates E-cadherin expression and induces cell transformation in colorectal carcinoma” by Chung Y-C et al.

In this paper, the authors examined E-cadherin and Rab11 expressions in 113 colorectal carcinoma patients. Both E-cadherin and Rab11 expressions were significantly upregulated in tumors compared to normal tissues and co-overexpression of E-cadherin and Rab11 was detected in 2/3 of patients. When Rab11 was overexpressed in colon cancer HT-29 cells, E-cadherin expression was upregulated and induced fibroblast-like cell polarity. Although co-overexpression of E-cadherin and Rab11 in colorectal carcinoma is very interesting, the authors should clarify the following points.

Major comulsory revisions
1. Figure 1 a.
The magnification of images in Normal and Tumor look different. The authors need to show the scal bar in all images.

2. Figure 3 e.
GFP-Rab11-positive cells look like dead cells. To show the distribution of GFP-Rab11-positive cells in the cell leading edge, the authors need to show the same quality of image as Figure 4a.

3. Figure 4.
To show that Rab11 induces the cell migration, the authors need to show the quantitative data (for instances, Boyden chamber assay) in addition to the single cell images.

4. Results, third paragraph.
Because fibroblasts are commonly recognized as non-polarized cells, the term “fibroblast-like polarity” is very confusing. The authors need to use the different term or to explain in detail.

Level of interest: An article of limited interest

Quality of written English: Not suitable for publication unless extensively edited
**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.