Reviewer's report

Title: Unphosphorylated STAT3 in heterochromatin formation and tumor suppression in lung cancer

Version: 0 Date: 06 Dec 2019

Reviewer: Tao Ren

Reviewer's report:

JAK/STAT pathway plays an important role in many types of human cancers. Usually this pathway exert its role by phosphorylating STAT, but the role of unphosphorylated STAT is still unknown. In this study the author found that uSTAT3 may has a function in promoting heterochromatin formation in lung cancer. However, more experiments are necessary to make the results more convince. Although the authors verified STAT3 interacts with HP1a and regulates heterochromatin formation, the mechanism is not of that clear.

Are the methods appropriate and well described?
If not, please specify what is required in your comments to the authors.

Yes

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