Reviewer's report

Title: Natural resistance to ascorbic acid induced oxidative stress is mainly mediated by catalase activity in human cancer cells and catalase-silencing sensitizes to oxidative stress

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Reviewer: Yaxiong Tang

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In this manuscript, the authors try to find the correlation between the catalase and the resistance of cancer cells to ascorbic acid mediated oxidative stress. However, more experimental data such as the effects of some other hydrogen peroxide-detoxifying enzymes are needed to confirm that. What is more, we do not see a big difference in catalase activity from fig.4a and this indicates that catalase may not be the main target for ascorbic acid.

The manuscript should also provide the western blot results for some caspases.

In writing, detailed protocols need to be provided for all the data.

Level of interest: An article of insufficient interest to warrant publication in a scientific/medical journal

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:

I declare that I have no competing interests