Author's response to reviews

Title: Characterization of a novel PTEN mutation in MDA-MB-453 breast carcinoma cell line

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Author's response to reviews:

Dear Editorial Board members,

I am submitting a manuscript entitled “Characterization of a novel PTEN mutation in MDA-MB-453 breast carcinoma cell line”. In this report, we described the finding of a novel PTEN mutation in the C2 loop of this tumor suppressor in this widely used breast cancer cell line. The glutamate to lysine substitute results in enhanced polyubiquitination, nuclear exclusion and failed to confer chemosensitivity. These changes may contribute to the initiation and/or progression of breast cancer.

Currently, there is no known cell line with PTEN C2 loop mutation. This study highlights the availability of this unique cell line and will have broad interest for the PTEN and breast cancer fields.

We appreciate your attention and hope you can expedite the review of this manuscript.