

RETRACTION NOTE



Retraction Note: Lymphatic metastasis-related TBL1XR1 enhances stemness and metastasis in gastric cancer stem-like cells by activating ERK1/2-SOX2 signaling

Jun Lu, Heejin Bang, Su Mi Kim , Soo-Jeong Cho , Hassan Ashktorab, Duane T. Smoot, Chao-hui Zheng, Sandra W. Ryeom, Sam S. Yoon, Changhwan Yoon and Jun Ho Lee

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The Editors-in-Chief have retracted this article. After publication, concerns were raised regarding overlapping images among the figures in this article, as well as with the authors' other works [1, 2]. Specifically:

Fig. 2e TBL1XR1 blot appears highly similar to Fig. S4a KATOIII p-AKT(Ser473).

Fig. 2f TBL1XR1 image appears to overlap with Fig. 3c KRAS-G12V in [1].

Fig. 3e KATOIII sh.TBL1XR1 migration and invasion images appear to overlap with each other and Fig. S3I KATO3 top middle image.

Fig. 3e sh.TBL1XR1 images appear to overlap with Fig. 5c sh.KRAS images in [1].

Fig. 3f KATOIII Zeb1 blot appears highly similar to Fig. 5a cleaved caspase 3 lanes 2 and 3.

Fig. 4d immunostaining AGS shERK1/2 blue channel appears highly similar to Fig. 4 KATOIII sh.Scr.

Fig. 5d TBL1XR1/Cleaved Caspase 3 right images appears highly similar to Fig. 5b Cleaved Caspase 3 image in [2].

Fig. 6a right Vimentin blot appears highly similar to Fig. S2f Snail.

Fig. 6a left b-actin appears similar to Fig. S4f AKT.

Fig. S4a AGS p-AKT(Ser473) appears highly similar to Fig. S6b Snail lanes 2 and 3.

Fig. S7d bottom CD44 images 2 and 3 appear to overlap.

The Editors-in-Chief therefore no longer have confidence in the presented data.

Changhwan Yoon has stated on behalf of all authors that they agree to this retraction.

REFERENCES

1. Yoon C, Till J, Cho SJ, Chang KK, Lin JX, Huang CM, et al. KRAS activation in gastric adenocarcinoma stimulates epithelial-to-mesenchymal transition to cancer stem-like cells and promotes metastasis. *Mol Cancer Res.* 2019;17:1945–57. <https://doi.org/10.1158/1541-7786.MCR-19-0077>
2. Chang KK, Yoon C, Yi BC, et al. Platelet-derived growth factor receptor- α and - β promote cancer stem cell phenotypes in sarcomas. *Oncogenesis.* 2018;7:47 <https://doi.org/10.1038/s41389-018-0059-1>