

**RETRACTION NOTE** **OPEN**

Retraction Note: Dickkopf-1 contributes to hepatocellular carcinoma tumorigenesis by activating the Wnt/ β -catenin signaling pathway

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All authors agree to this retraction.

The authors have retracted this article. After publication, concerns were raised regarding suspected overlap in the cell images in Figs. 2 and 3. Specifically:

- Figs. 2f and 3f (HUH-7 Scramble) appear to contain an overlapping area.
- HepG2 Scramble in Fig. 2d and HUH-7 LV-DKK1 in Fig. 3d appear to be mirror images.
- A part of the HUH7 Scramble image in Fig. 2d appears to be enlarged and presented as HepG2 Scramble.
- The authors therefore no longer have confidence in the presented data.



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