

# TRIB3

Lu et al. aimed to explore whether tribbles pseudokinase 3 (TRIB3) enhances glioma cell stemness. TRIB3 was overexpressed in glioma tissues and cell-formed spheres, positively correlated with the size and grade. Additionally, TRIB3 expression displayed a negative correlation with the overall survival rate of glioma patients. Moreover, TRIB3 knockdown reduced the stemness of nonadherent spheres, evident by the decreased sphere-forming ability, stemness master expression, and ALDH1 activity, while TRIB3 overexpression enhanced the stemness of adherent cells, which was rescued by  $\beta$ -catenin knockdown. Mechanistically, TRIB3 activated  $\beta$ -catenin signaling via physically interacting with  $\beta$ -catenin. This study suggests that the TRIB3- $\beta$ -catenin interaction is responsible for glioma cell stemness <sup>1)</sup>.

<sup>1)</sup>

Lu Y, Li L, Chen L, Gao Y, Chen X, Cao Y. TRIB3 confers glioma cell stemness via interacting with  $\beta$ -catenin. *Environ Toxicol*. 2020 Jan 29. doi: 10.1002/tox.22905. [Epub ahead of print] PubMed PMID: 31995275.

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