

Figure S1. Correlation analysis between HRH1 and Wnt/ β -catenin-related genes. (A) Spearman correlation analysis showing the association between HRH1 expression and representative Wnt/ β -catenin pathway-related genes. HRH1 was positively correlated with several pathway-related genes, including MMP7, WNT7A, CCND1, FZD7, TCF7, CTNNB1, DVL1, WNT5A, MYC, GSK3B and LEF1, while a weak negative correlation was observed with AXIN2. The length of each line represents the Spearman correlation coefficient. (B) Genome-wide single-gene correlation profile of HRH1. The x-axis represents the Spearman correlation coefficient with HRH1, and the y-axis represents the $-\log_{10}$ adjusted P-value. Wnt/ β -catenin-related genes are highlighted, indicating that MMP7, WNT7A, CCND1 and CTNNB1 showed relatively strong positive correlations with HRH1 expression. These results suggest a potential association between HRH1 and activation of the Wnt/ β -catenin signaling pathway. HRH1, histamine receptor H1.

