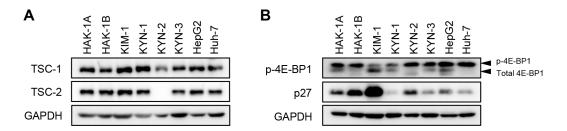
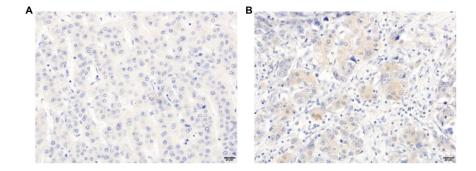
Phosphorylation of mTOR Ser2481 is a key target limiting the efficacy of rapalogs for treating hepatocellular carcinoma

Supplementary Materials



Supplementary Figure S1: Expression levels of mTORC1 signaling-related molecules in HCC cell lines. Western blot analysis of the expression in eight human HCC cell lines of TSC-1 and TSC-2 (A) and p-4E-BP1 and p27 (B).



Supplementary Figure S2: Comparison of the expression level of keratin 19 between HAK-1A and HAK-1B. IHC analysis of the expression of keratin 19 in HAK-1A (A) and HAK-1B (B) tissues. Immunohistochemical stain was performed by keratin 19 antibody (BA17, DAKO, Glostrup, Denmark) using the streptavidin-biotin-peroxidase method.