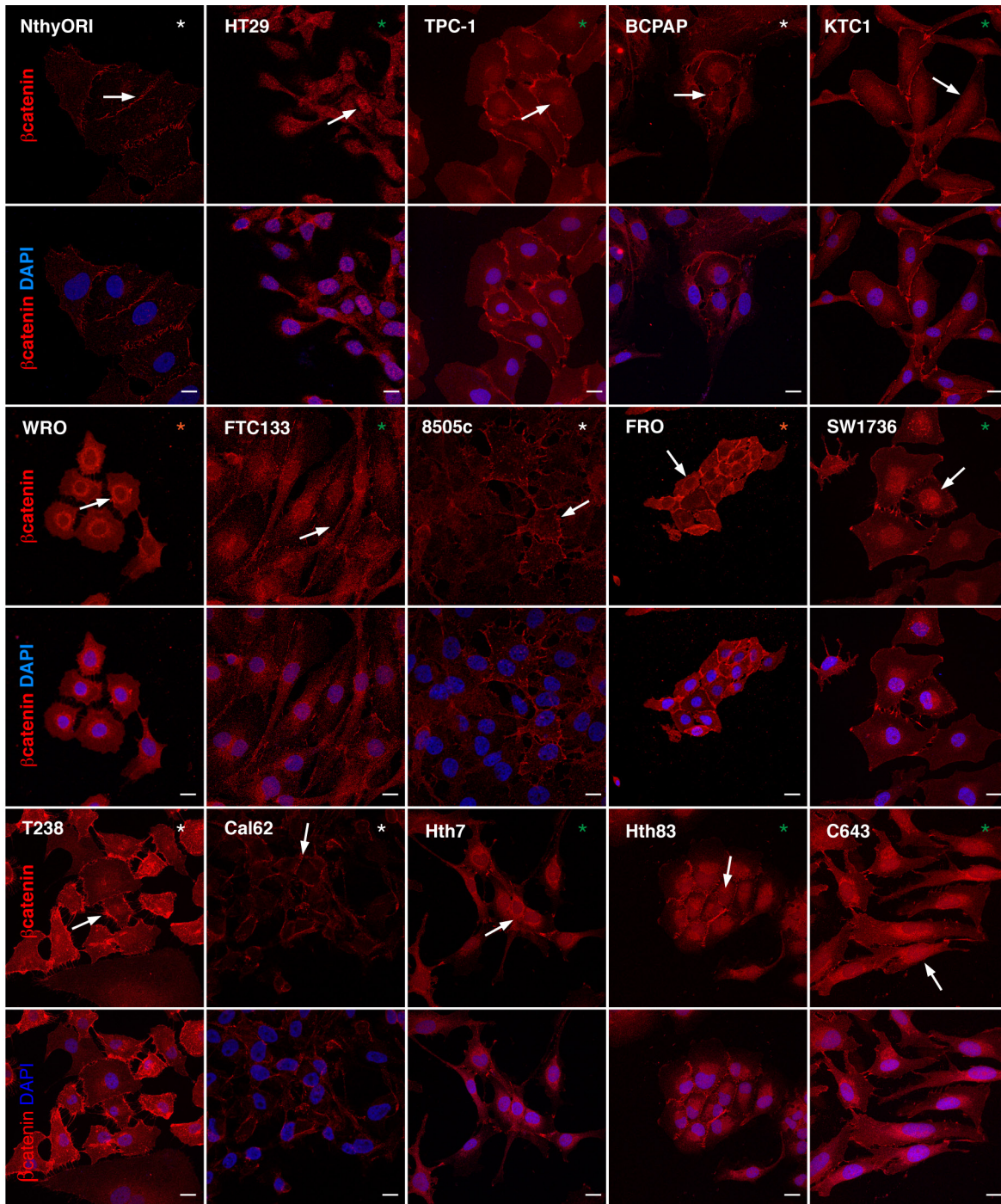


## **β-catenin signaling is required for RAS-driven thyroid cancer through PI3K activation**

### Supplementary Materials

**Supplementary Table S1: Primers used for RT-QPCR**

Gene	Forward primer	Reverse primer	Size (bp)
p21	5'CTTGTACCCTTGTGCCTCG3'	5'TTAGGGCTTCCTCTTGGAGA3'	149
β-catenin	5'CCATCTGTGCTCTTCGTCACT3'	5'GCAGTCTCATTCCAAGCCAT3'	691
E-cadherin	5'AAGGGCTTGGATTTGAGGCCA3'	5'GTGCTGTTCTTCACAGGCTC3'	362
Slug	5'TGGTTGCTTCAAGGACACAT3'	5'GTTGCAGTGAGGGCAAAGAA3'	66
TWIST1	5'CCGGAGACCTAGATGTCATTG3'	5'ATGCAGAGGTGTGAGGATGG3'	234
SNAIL1	5'ACCCACACTGGCGAGAAG3'	5'GAGAAGGATGTGGGGTCCTT3'	281
ZEB1	5'GCTGACCAGAACAGTGTT3'	5'CAGAGTCATTCTGATCCTC3'	211
Fibronectin	5'CCCTTACAGTTCAGGGTTCC3'	5'TTCAAGCCTTCGTTGACAGA3'	164
Vimentin	5'GACAATGCGTCTCTGGCACGT3'	5'TCTTCTGCCTCCTGCAGGTTCTT3'	236
N-cadherin	5'TGCCATGACGTTTTATGGTG3'	5'TGGTTTGACCACGGTGACTA3'	199



**Supplementary Figure S1:  $\beta$ -catenin cellular localization in human thyroid cancer cell lines.** Cells were grown in coverslips, fixed and stained with a  $\beta$ -catenin antibody (red). Nuclei were stained with DAPI (blue). Scale bar 10  $\mu$ m. Asterisks indicate membrane (white), perinuclear (orange) or nuclear localization (green). The arrows show representative  $\beta$ -catenin staining.