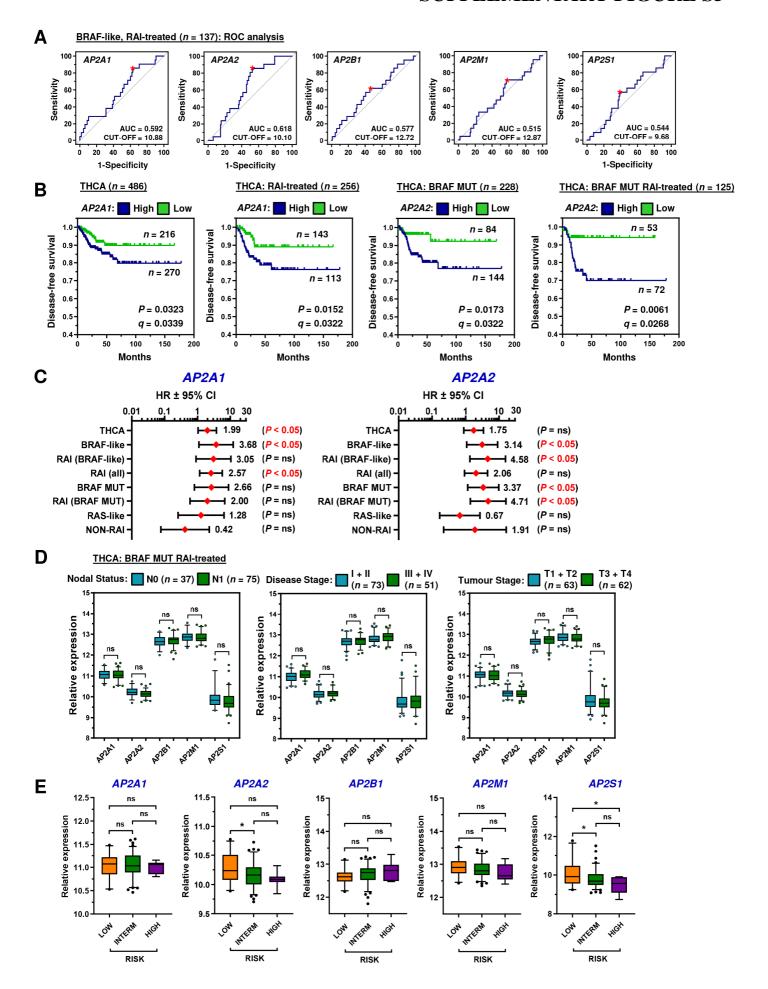
SUPPLEMENTARY FIGURE S5



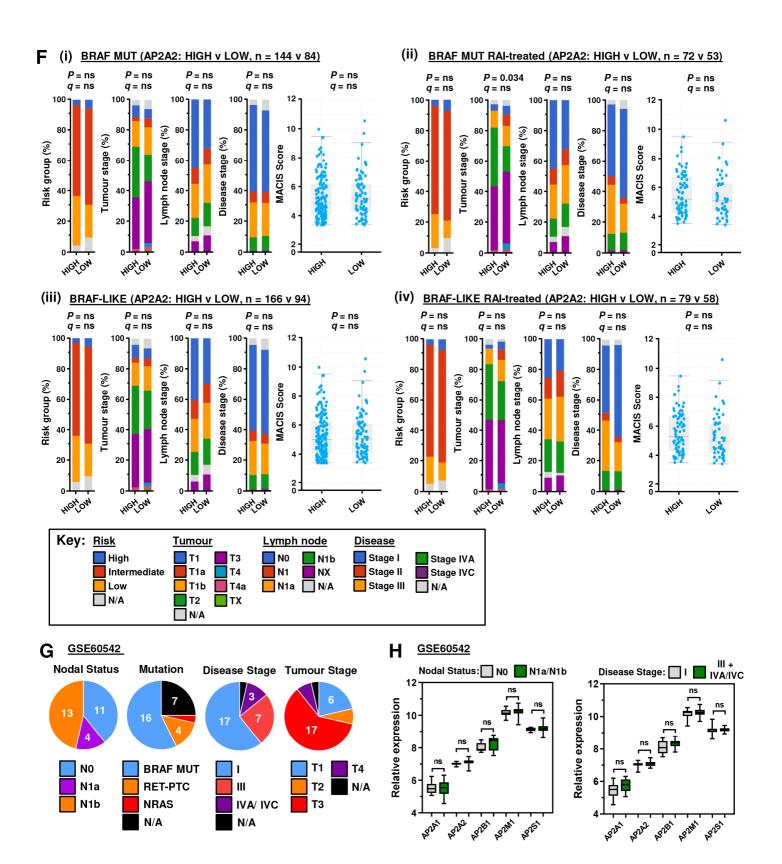


Figure S5. High AP2A1 and AP2A2 expression associated with increased risk of recurrence. **A,** Representative ROC curves of AP2 genes in the BRAF-like, RAI-treated THCA cohort (n = 137). **B,** Representative Kaplan-Meier analysis of DFS for indicated THCA TCGA cohorts stratified on high versus low tumoral expression for either AP2A1 or AP2A2; log-rank test. Number (n) of patients per expression sub-group (high/low), P-values and q-values are shown. **C,** Hazard ratio (HR) \pm 95% CI for patients stratified on AP2A1 and AP2A2 expression in THCA with the indicated treatment and genetic signature or alteration. **D,** Box and whisker plots showing expression (log₂) of indicated AP2 genes in the BRAF MUT, RAI-treated THCA cohort stratified on nodal status (left), disease stage (middle) and tumour stage (right); P-values determined by Mann-Whitney test and adjusted using the Benjamini-Hochberg FDR correction procedure (ns, not significant). **E,** Same as **D** but showing expression (log2) of indicated AP2 genes in the BRAF MUT, RAI-treated THCA cohort stratified according to risk criteria [i.e. low, intermediate (INTERM) and high]. (ns, not significant; *P < 0.05). **F,** Stacked bar charts showing clinical characteristics of THCA cohorts (i) BRAF MUT (n = 228), (ii) BRAF

MUT RAI-treated (n = 125), (iii) BRAF-like (n = 260) and (iv) BRAF-like RAI-treated (n = 137) stratified by AP2A2 expression (high versus low). Cut-off expression value used was 10.10. Clinical staging attributes include risk group, tumour staging, lymph node staging, disease staging and MACIS score. P-values derived using Chi-Squared test and adjusted using the Benjamini-Hochberg FDR correction procedure. G, Pie charts showing cancer staging and tumour mutational characteristics of patients in the GSE60542 cohort (n = 28). G, Box and whisker plots showing expression (log₂) of indicated AP2 genes in the GSE60542 cohort stratified on nodal status (left) and disease stage (right); P-values determined by Mann-Whitney test and adjusted using the Benjamini-Hochberg FDR correction procedure (ns, not significant).