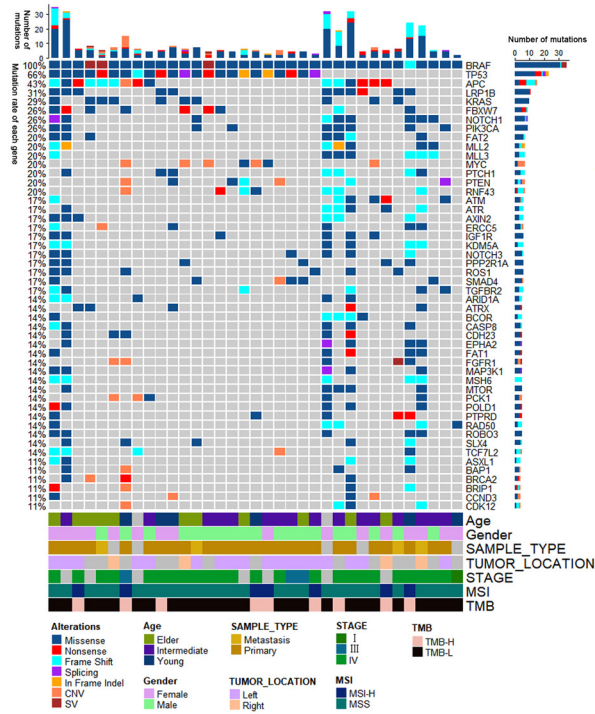


A



B

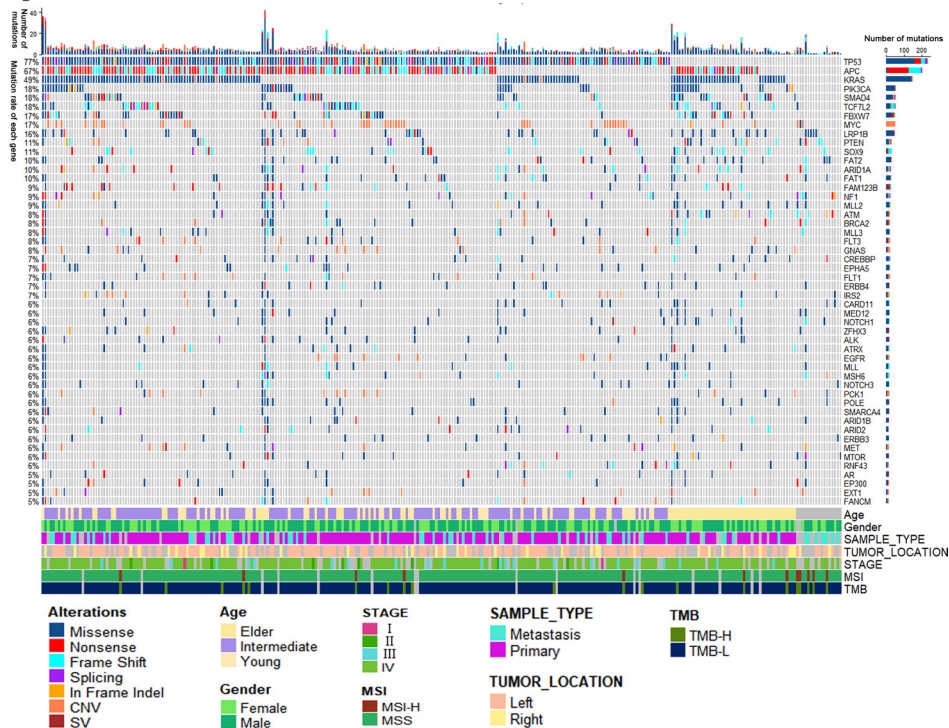
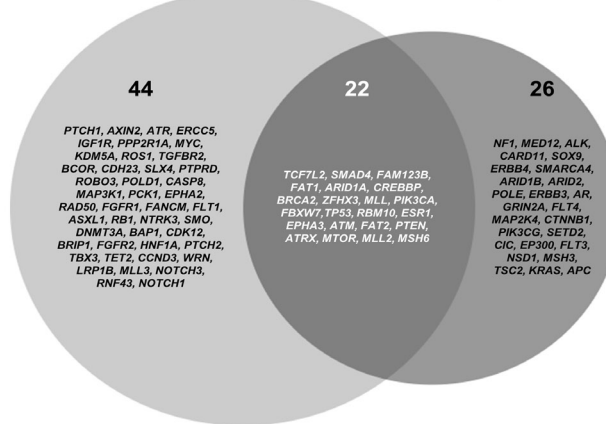


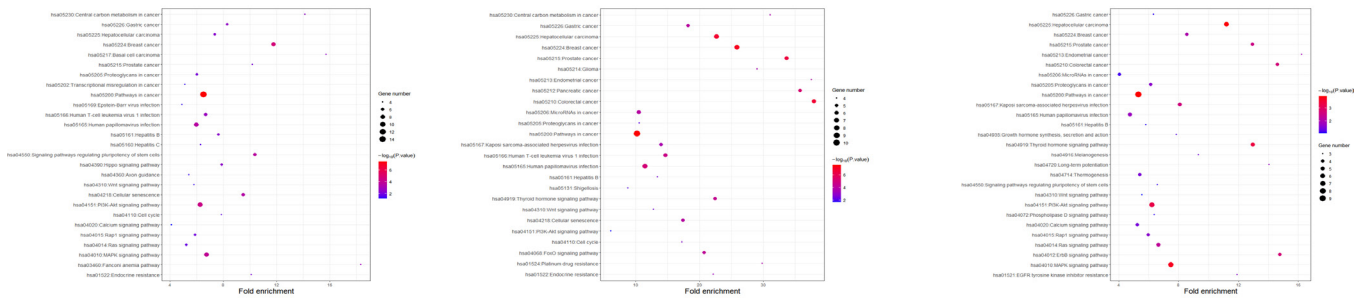
Figure S1 Top 50 mutation spectrum of 339 patients in Chinese cohort (A, *BRAF*-mutated; B, *BRAF* wild-type). Each column represents a patient and each row represents a gene. Table on the left represents the mutation rate of each gene. Top plot represents the overall number of mutations a patient carried. Different colors denote different types of mutation. CNV, copy number variation; MSI, microsatellite instability; MSI-H, high MSI; MSS, microsatellite stability; TMB, tumor mutational burden; SV, structural variation.

Top mutations in BRAF^{mt}

Top mutations in BRAF^{wt}



KEGG



GO

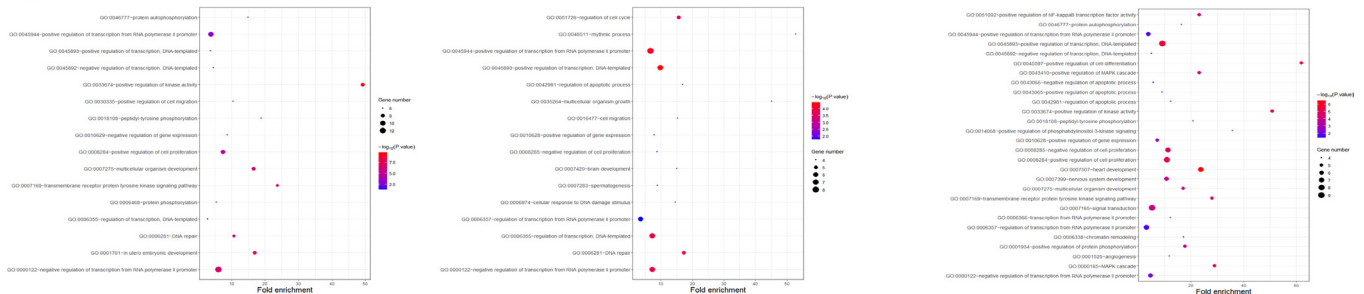


Figure S2 Unique and shared mutation analyses between *BRAF* mutations and *BRAF* wild-type to predict carcinogenicity. The Venn diagram shows the unique and shared mutations of *BRAF* mutations and *BRAF* wild-type in the Chinese cohort. GO and KEGG functional enrichment analyses of differentially unique and shared mutations. The left side shows the *BRAF*-mutated unique mutations; the middle shows the shared mutations between *BRAF* mutations and *BRAF* wild-type; the right side shows the *BRAF* wild-type unique mutations. mt, mutation; GO, Gene Ontology; KEGG, Kyoto Encyclopedia of Genes and Genomes.