***STAT5B* variant investigation by Sanger Sequencing**

STAT5B variant analysis was performed on both formalin-fixed paraffin-embedded (FFPE) neoplastic tissue and blood sample. QIAamp DNA FFPE Tissue Kit (Qiagen Inc., Valencia, CA) and TIANamp Blood DNA Kit (DP318) were used to extract the genomic DNA. PCR primers were designed and synthesized referring to STAT5B sequence (RefSeq: NM\_012448; CCDS:CCDS11423). The expected amplicons were recovered by AxyPrep DNA Gel Extraction Kit，AXYGEN (AP-GX-250). Gene sequencing was performed referring to instruction of BigDye® Terminator v3.1 Cycle Sequencing Kit and the results were analyzed by Applied Biosystems 3730xl DNA Analyzers (Applied Biosystems, Foster, CA).