Legends of supplementary Figures

Supplementary Figure 1: Sequence results of EML4-ALK fusion variants
RACE-PCR or RT-PCR plus sequencing identified EML4-ALK fusion variants in 10 cases, with 5 cases of V1, 2 cases of V3a/V3b, 1 case of V4b, 1 case of V5a, and 1 case of V6b. Two novel EML4-ALK fusion variants were identified as V6b in P1 and V4b in P11. Fusion sequences of EML4-ALK were E13;ins90A20 and E14;ins124A20 respectively. Chromatographs of sequencing of ten tumors are listed. (A) P1: EML4-ALK V6b (E13; ins90A20); (B) P2: EML4-ALK V1 (E13; A20); (C) P3: EML4-ALK V1 (E13; A20); (D) P4: EML4-ALK V1 (E13; A20); (E) P5: EML4-ALK V1 (E13; A20); (F) P6: EML4-ALK V5a (E2; A20); (G) P9: EML4-ALK V1 (E13; A20); (H) P10: EML4-ALK V3a/V3b (E6a/E6b; A20); (I) P11: EML4-ALK V4b (E14; ins124A20); (J) P13: EML4-ALK V3b (E6b; A20).

Supplementary Figure 2: Representative IHC graphs of EGFR, p-EGFR, ALK, p-ALK in EGFR-mutant/ALK-negative, EGFR-WT/ALK-positive tumors, and EGFR-WT/ALK-negative tumors
In EGFR-mutant/ALK-negative tumors total EGFR protein and p-EGFR were almost invariably detected though with a range of staining signal intensity and ALK and p-ALK was negative; In EGFR-WT/ALK-positive tumors ALK fusion protein and p-ALK could be positive, but total EGFR and p-EGFR signals could be weak or mild; In EGFR-WT/ALK-negative tumors ALK fusion protein and p-ALK could not be detected but total EGFR and p-EGFR signals could be in a range of weak to mild intensity.
Abbreviations: EGFR, total EGFR protein; ALK, ALK fusion protein; p-EGFR, phospho-EGFR (p-EGFR Y1068); p-ALK, phospho-ALK (p-ALK Y1604)