Figure S1. Detection of EGFR mutations using ddPCR in lung cancer cell lines harboring EGFR mutations. (A and B) ddPCR using EGFR L858R primer sets. EGFR L858R was amplified in the serially diluted DNA of H3255 cells with EGFR L858R. (C and D) ddPCR using EGFR exon 19 deletion primer sets. EGFR exon 19 deletion was amplified in the serially diluted DNA of RPC-9 cells harboring EGFR exon 19 deletion and T790M mutations. (E and F) ddPCR using EGFR T790M primer sets. EGFR T790M was amplified in the serially diluted DNA of RPC-9 cells harboring EGFR exon 19 deletion and T790M mutations. EGFR, epidermal growth factor receptor; ddPCR, droplet digital PCR; Ex19del, EGFR exon 19 deletions.
Figure S2. ddPCR in negative controls. (A) ddPCR in elution buffer or EBC samples from healthy volunteers. (B) ddPCR using primer set for EGFR L858R. No positive droplets were observed in elution buffer or EBC samples from healthy volunteers. (C) ddPCR using EGFR exon 19 deletion primer sets. Positive droplets were observed in elution buffer and EBC samples from healthy volunteers. (D) ddPCR using EGFR T790M primer sets. No positive droplets were observed in elution buffer or EBC samples from healthy volunteers. ddPCR, droplet digital PCR; EBC, exhaled breath condensate; Ex19del, EGFR exon 19 deletion; HD802, EGFR gene-specific multiplex gDNA reference standard.
Figure S3. ROC analysis to determine the threshold for epidermal growth factor receptor exon 19 deletion. ROC, receiver operating curve.

Area under ROC curve = 0.5964