



Fig. S1. DNA sequencing of *HRAS* exon 2 and immunohistochemical staining with RAS G13R antibody in sporadic apocrine carcinomas. (A–C) DNA sequence of *HRAS* exon 2. Codon 13 was wild type in cases 2–4. (D–F) Histopathological features of cases 2–4. Tumour nests with ductal formation had nuclear atypia (haematoxylin and eosin staining, $\times 200$). (G–I) Immunohistochemical staining of RAS G13R was negative in cases 2–4 ($\times 200$).