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Adjuvant therapy with toceranib for hepatocellular carcinoma and cholangiocarcinoma in a Pomeranian

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Electronic Supplementary Material (ESM)

Figure S1. RT-PCR for comparison of RTK gene expression

Figure S2. Tendency of cell death for toceranib concentration

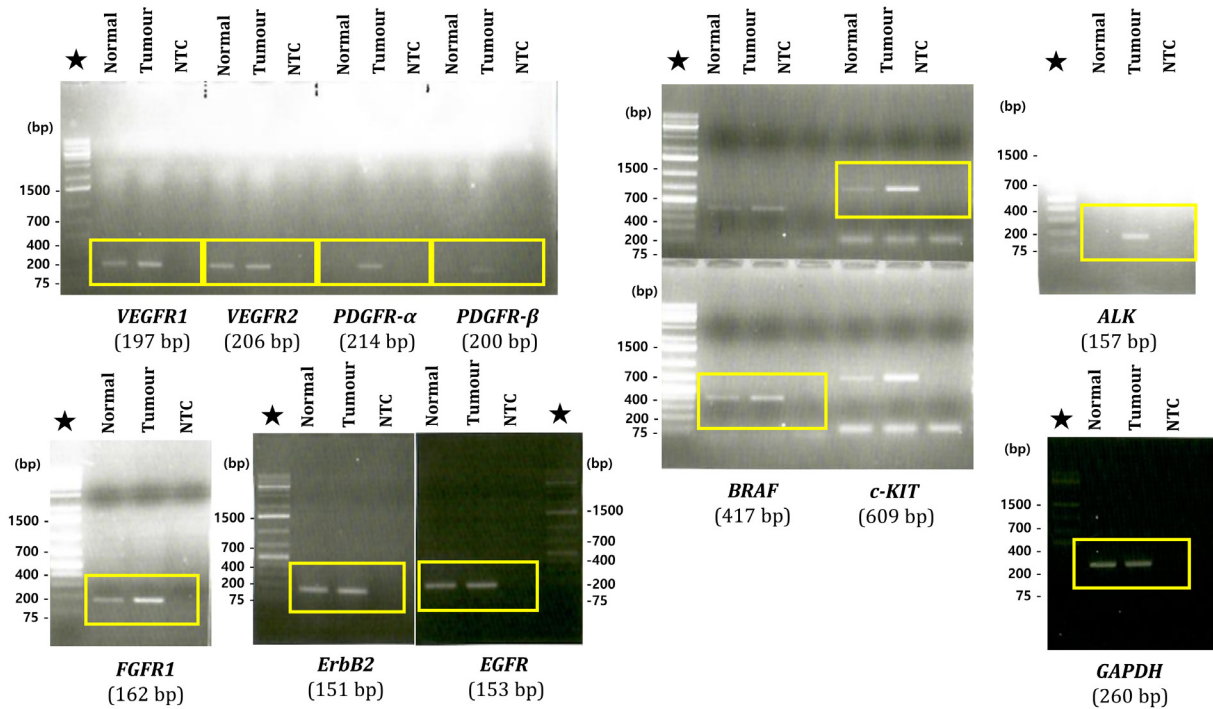


Figure S1. RT-PCR for comparison of RTK gene expression

RT-PCR was conducted to compare the mRNA expression levels of RTK between the tumour tissues and adjacent normal tissues from a dog with mixed HCC-CC. *PDGFR-α*, *PDGFR-β*, *c-Kit*, *FGFR1*, and *ALK* in tumour cells were overexpressed compared to those in normal hepatocytes; in particular, the overexpression of *PDGFR-α*, *c-Kit*, and *FGFR1* was predominant. Yellow boxes indicate the band of normal hepatocytes, tumour cells, and NTC in order. Star symbols indicate DNA size markers.

ALK = anaplastic lymphoma receptor tyrosine kinase; *BRAF* = B-Raf proto-oncogene serine/threonine-protein kinase; *c-KIT* = stem cell factor receptor; DNA = deoxyribonucleic acid; *EGFR* = epidermal growth factor receptor; *ErbB2* = erb-b2 receptor tyrosine kinase; *FGFR* = fibroblast growth factor receptor; *GAPDH* = glyceraldehyde-3-phosphate dehydrogenase; HCC-CC = hepatocellular carcinoma-cholangiocarcinoma; NTC = non-template control; *PDGFR* = platelet-derived growth factor receptor; RTK = receptor tyrosine kinase; RT-PCR = reverse transcription-polymerase chain reaction; *VEGFR* = vascular endothelial growth factor receptor

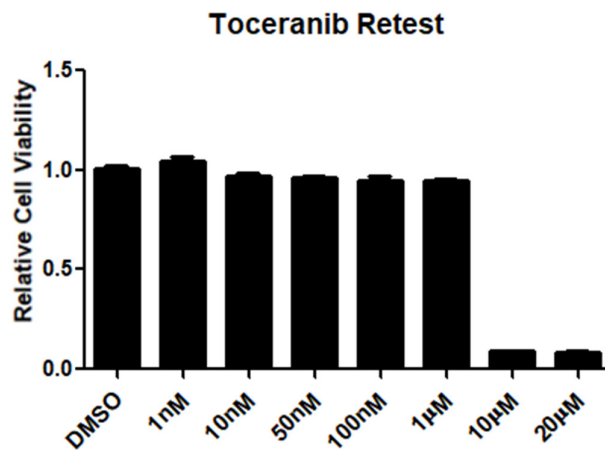


Figure S2. Tendency of cell death for toceranib concentration

Because toceranib induced significant cell death at 20 µM, an in vitro chemosensitivity test was also performed at lower concentrations. The level of cell death at 10 µM was as high as that at 20 µM.

DMSO = dimethyl sulfoxide