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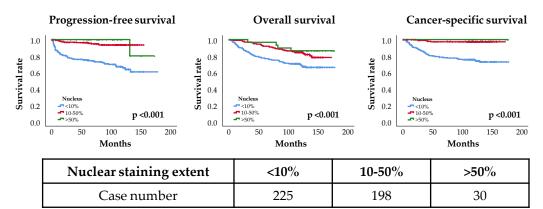


Figure S1. Establishment of the cut-off criteria for pAMPK positivity. First, prognosis of ccRCC was evaluated according to the pAMPK-staining extent (<10%; 10-50%; >50%) for both (a) cytoplasmic and (b) nuclear staining in the discovery cohort. In both localization of pAMPK expression, tumors showing <10% expression showed distinctly poor outcomes. Based on the distribution of the cases and the prognostic implications, therefore, pAMPK-positivity in ≥10% of tumor cells was set as the cutoff.