

Supporting Information

High Efficiency Capture of Biomarker miRNA15a for Noninvasive Diagnosis of Malignant Kidney Tumors

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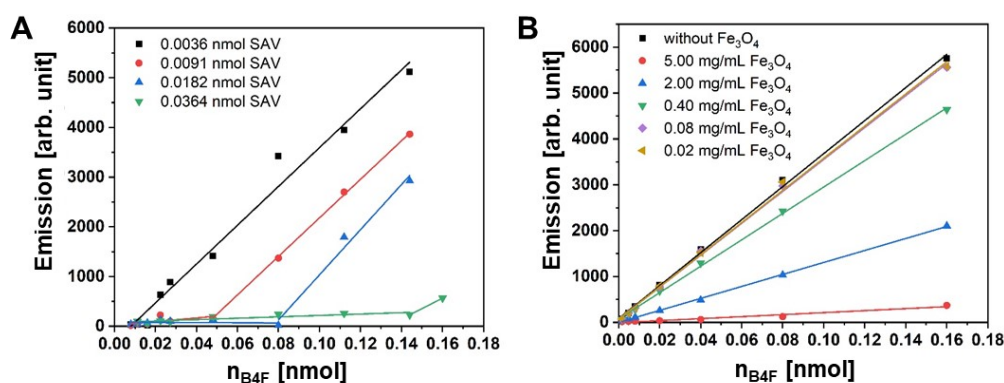


Figure S1: (A) Quenching effect of SAV on B4F shows, that up to 4 B4F molecules can bind on one SAV protein. (B) Based on particle scattering effect, Fe₃O₄@DHCA dispersions higher than 0.08 mg/mL have a quenching effect on the fluorescence of B4F.

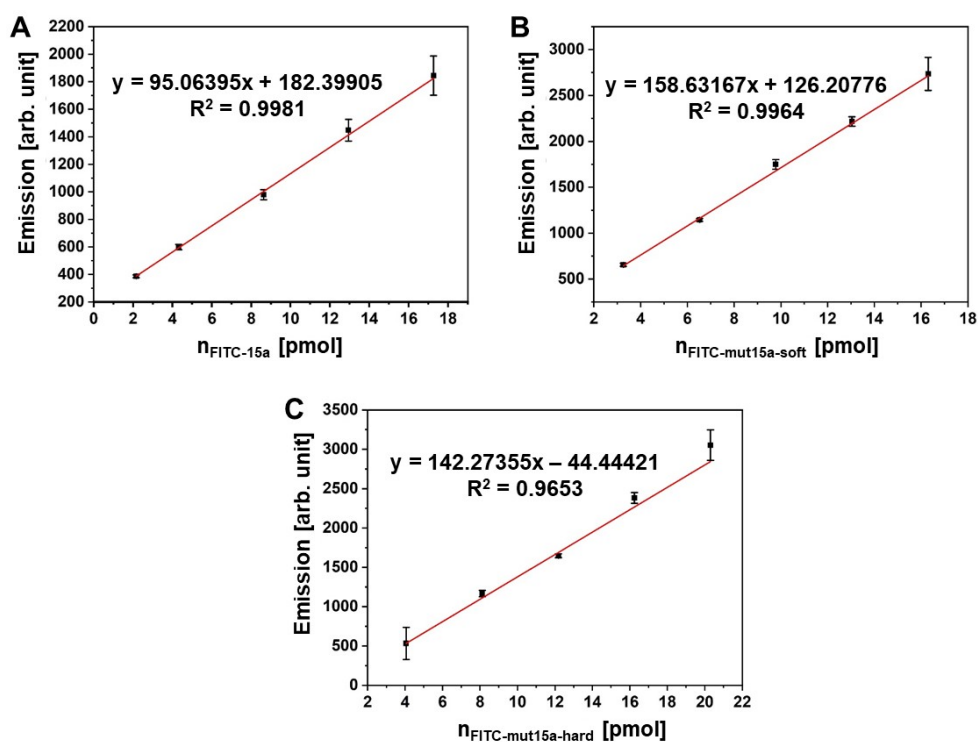


Figure S2: Calibration line of (A) FITC-15a, (B) FITC-mut15a-soft and (C) FITC-mut15a-hard.

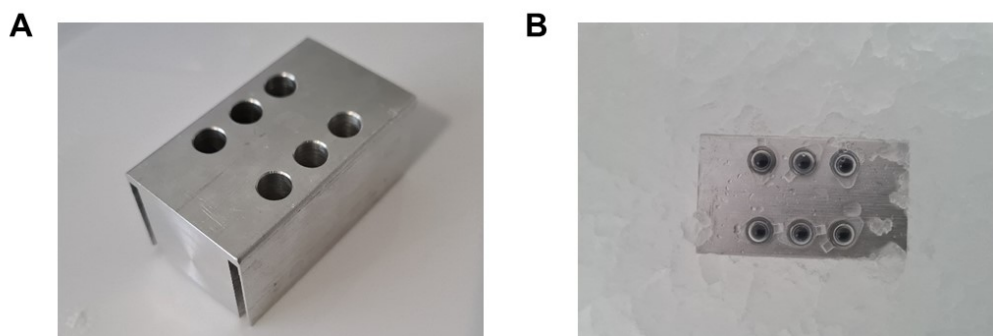


Figure S3: (A-B) Designed cooling block, made of aluminium for the hybridization of ssDNA-15a and FITC-C-tail with 6 places for PCR-tubes and 2 small slots for magnets.

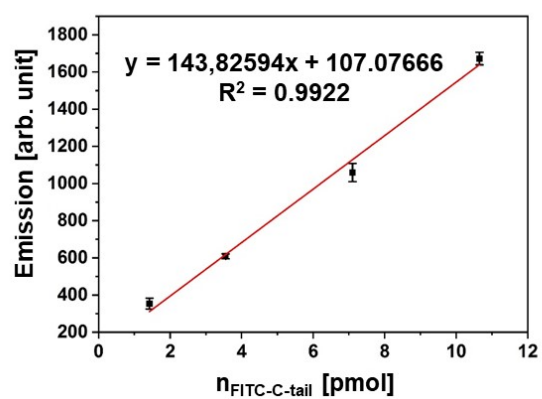


Figure S4: Calibration line of FITC-C-tail after cooling *via* ice bath.