



**Figure S3.** Cytotoxicity of RDP215 and 9D-RDP215 on glioblastoma cells SBcl-2 and healthy cells NHDF. Cell death was determined by PI-uptake (%) in presence of 2 μM, 5 μM, 10 μM and 20 μM peptide concentration after 8 hours of incubation. With SBcl-2, RDP215 already displays high peptide induced cell death up to 80% at 10 μM. Within the studied concentration range RDP215 exhibits no harm on NHDF cells. 9D-RDP215 shows increased antitumor and non-tumor toxicity, though still with high specificity. E.g., at 5 μM the D-peptide exhibits about 20-fold higher killing of cancer cells than normal cells. Data represent median values of at least three experiments.