Supplementary Data

Supplementary Figure 1. scFvGPIIb/IIa-MMAE binds to activated platelets and induces cancer cell killing. (A) Cytotoxicity assay of MDA-MB-231, HT29, HT1080 and PC3 tumor cells, cultured in GGG-Val-Cit-PAB-MMAE and scFvGPIIb/IIa-MMAE, in the presence of cathepsin B (+C). Data expressed as mean ± SEM. (B) Cytotoxicity assay of HT29, HT1080 and PC3 tumor cells, cultured in activated platelets which have been pre-incubated with scFvGPIIb/IIa-MMAE (■) or scFvmut-MMAE (■) and washed to remove unbound scFv (wash) in the absence of exogenous cathepsin B. As a control, HT29, HT1080 and PC3 tumor cells were
cultured in activated platelets that had been pre-incubated with scFvGPIIb/IIa-MMAE (▼) or scFvmut-MMAE (▼), which did not undergo a washing step (all n=3). Data expressed as mean ± SEM.
Supplementary Figure 2. Body weight, blood counts, liver and renal function assessments. 

(A) Body weight of MDA-MB-231 tumor-bearing mice treated with 6 mg/kg of scFvGPIIb/IIIa-MMAE (■) (n=7), scFvmut-MMAE (●) (n=6) or untreated (▲) (n=6). Data expressed as mean ± SEM. (B) Blood cell counts of tumor-bearing mice after four treatment rounds of 6 mg/kg of scFvGPIIb/IIIa-MMAE (■) (n=5), scFvmut-MMAE (●) (n=5) or untreated (▲) (n=5). (B) Liver and renal function tests of tumor-bearing mice after four treatment rounds of 6 mg/kg of scFvGPIIb/IIIa-MMAE (■) (n=4/5), scFvmut-MMAE (●) (n=5) or untreated (▲) (n=5). Black dotted lines represent guideline for normal range within the 95% interval published by Charles River for female BALB/C athymic nude mice. Data expressed as mean ± SEM. WBC - white blood cells, ALT - alanine aminotransferase and ALP - alkaline phosphatase.