



Figure 1. Biochemical analysis of GFP nanobody and capturing of EGFP-Apoftn on a typical TIRF slide.

A) SDS-PAGE of GFP nanobody before and after labeling with 'A' by maleimide reaction. **B)** 'A'-labeled GFP nanobody reacting with 'B' derivative. **C)** FSEC analysis showing 'A'-labeled GFP nanobody interacting with EGFP-Apoftn. **D)** Illustration of the capture of EGFP-Apoftn on the TIRF slide coated with 'B'. **E, F)** SiMPull analysis of EGFP-Apoftn in a concentration-dependent manner and representative TIRF images at each concentration. **G)** Illustration of the capture of EGFP-Apoftn on the functionalized graphene. **H)** SiMPull analysis of EGFP-Apoftn on the functionalized graphene. **I)** Affinity purification of EGFP-Apoftn from HEK cell lysate on the functionalized graphene. **J, K)** Comparison of capturing efficiency between the glass slide and the functionalized graphene.