

Supplementary Material

Binder-Free TiO₂ Monolith Packed Pipette-Tips for the Enrichment of Phosphorylated Peptides

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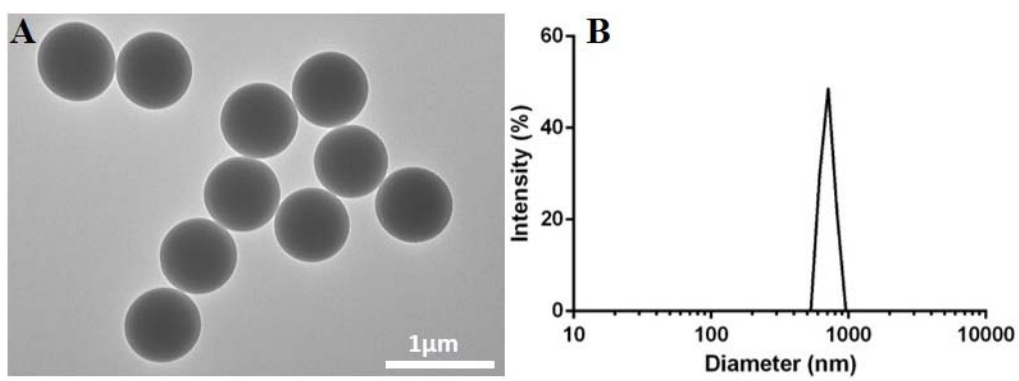


Figure S1 A) TEM image of APF spheres and B) the particle size distribution curve in D.I. water.

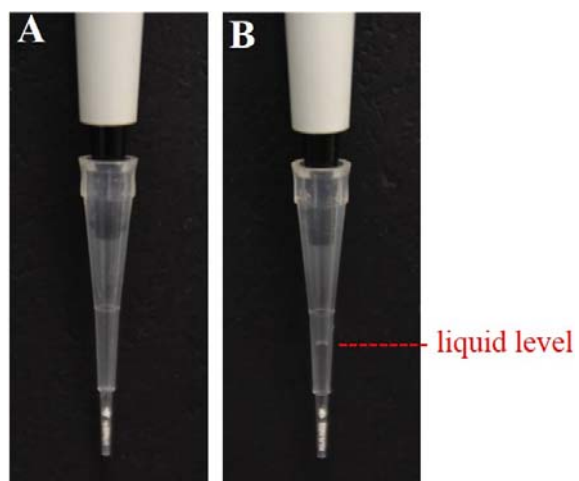


Figure S2 Digital images of T-tip A) before and B) after liquid adsorption.

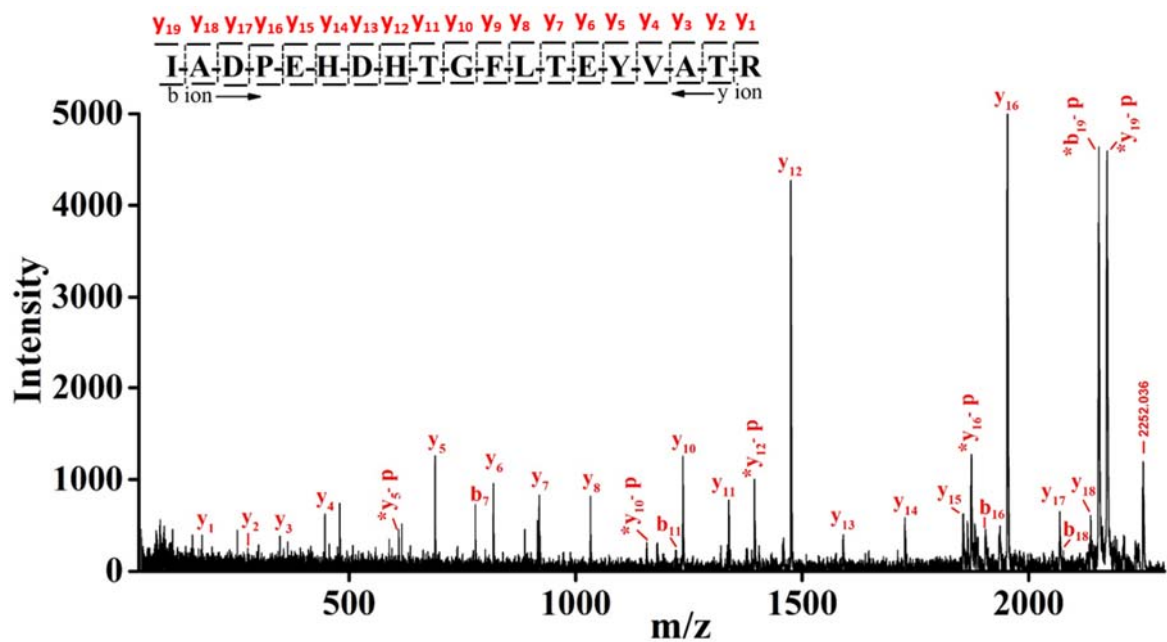


Figure S3 MALDI-TOF/TOF mass spectrum of phosphorylated peptide (m/z 2252.25) acquired from a tryptic digestion of p-ERK1 after isolation by T-tip. The peptide was identified as IADPEHDHTGFLTEYVATR by database searching analysis using ExPASy-PeptideMass and Proteomics Toolkit.

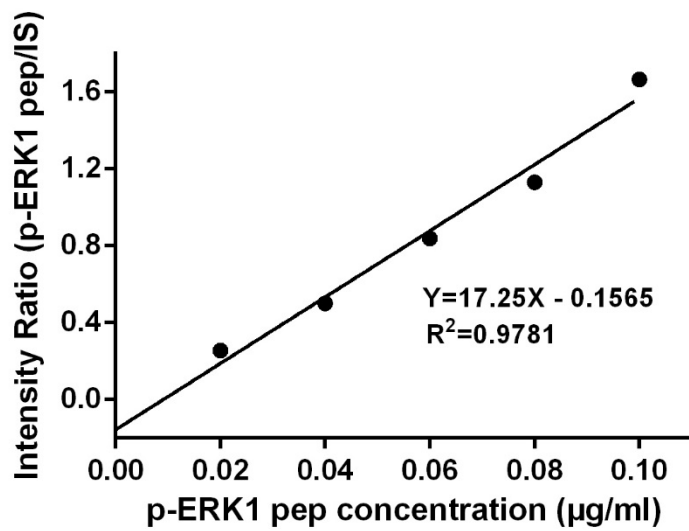


Figure S4 The standard curve shows the relationship between p-ERK1 peptide concentration and the peak intensity ratio of p-ERK1 peptide/IS.

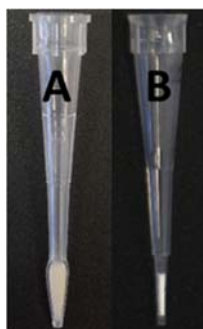


Figure S5 Digital image of (A) commercial NuTip and (B) polymer assisted TiO₂ tip.

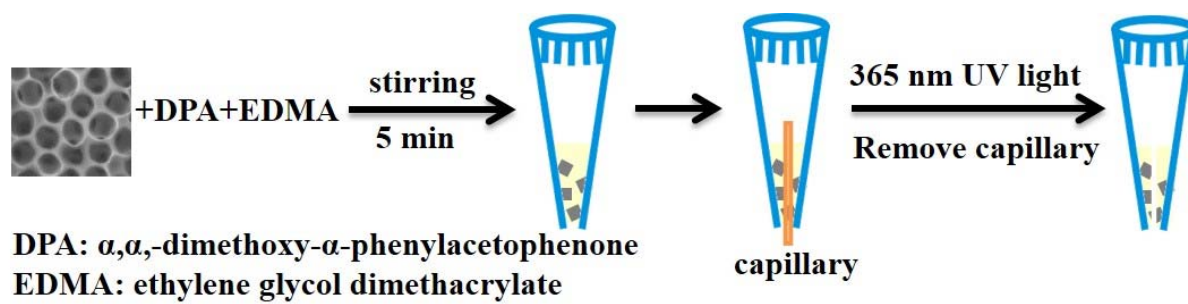


Figure S6 The process of packing TiO₂ tip through polymerization.