Supporting Information For

Peptide Au Cluster Probe: Precisely Detecting Epidermal Growth Factor Receptor of Three Tumor Cell Lines at a Single-Cell Level

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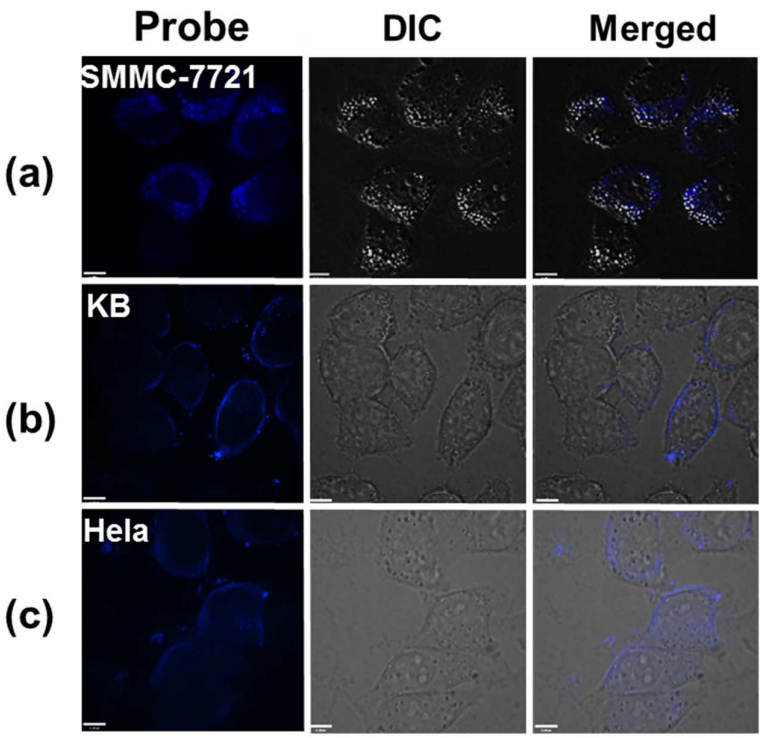

Figure S1 Location study of $Au_5Peptide_3$ Probe in SMMC-7721, KB and Hela cells. Confocal fluorescence images of (a) SMMC-7721, (b) KB and (c) Hela cells exposed to $Au_5Peptide_3$ probe.

Table S1 Operating Conditions for LA-ICP-MS

ICP Parameters	
Nebulizer Gas Flow (L/min)	0.88
Auxiliary Gas Flow (L/min)	0.9
Plasma Gas Flow (L/min)	18
ICP RF Power	1600
Analog Stage Voltage	-1700
Pulse Stage Voltage	900
Isotope monitored	^{197}Au
LA system	
Laser wavelength	213 nm (Nd: YAG)
Laser ablation method	Single spot analysis
He carrier gas flow rate/ L/min	0.8
Laser Fluence, J/cm2	0.96
Laser Power Setting,%	40
Repetition Frequency, HZ	5

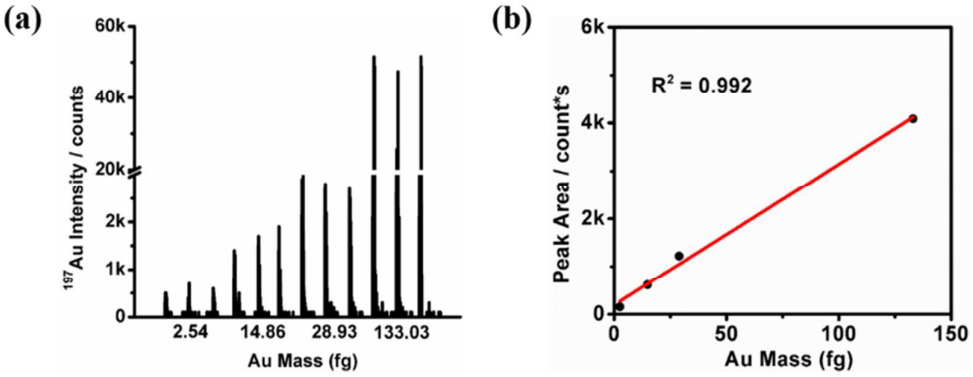

Figure S2 (a) Transient Au signal obtained by LA-ICP-MS from droplet residues of Au standards (2.54, 14.86, 28.93, 133.03 fg) on a glass slide. (b) Standard curve from Au standards in figure S2a.