

Artificial Antibody for Exosome Capture by Dull Template Imprinting Technology

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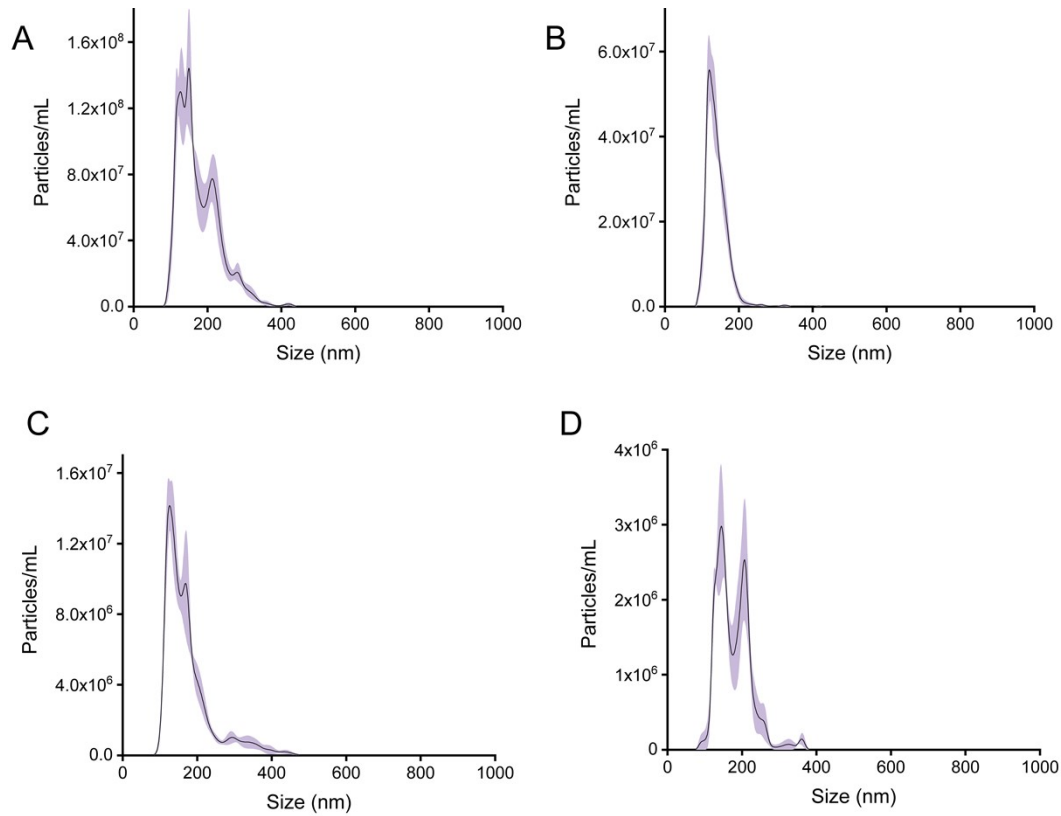


Figure S1 NTA analysis of urine before enrichment (n = 5) (A), HeLa-CCM before enrichment (n = 3) (B), urine after MIP enrichment (n = 5) (C) and HeLa-CCM after MIP enrichment (n = 3) (D). Particle concentration (particles/mL) is plotted against size (nm) of particles.

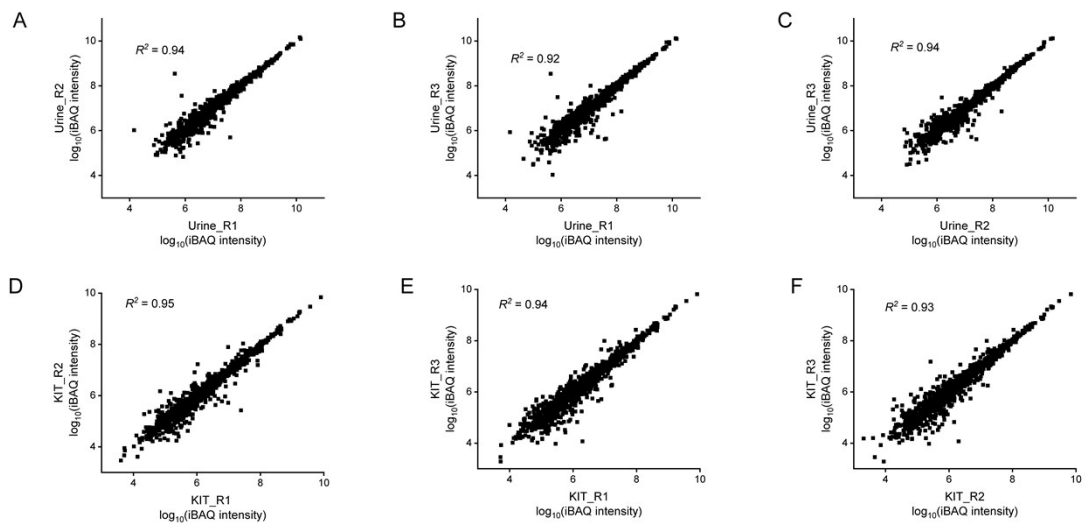


Figure S2 The quantified reproducibility among three MS replicates for the proteins from the untreated urine (A-C) and the KIT-isolated exosomes (D-F).

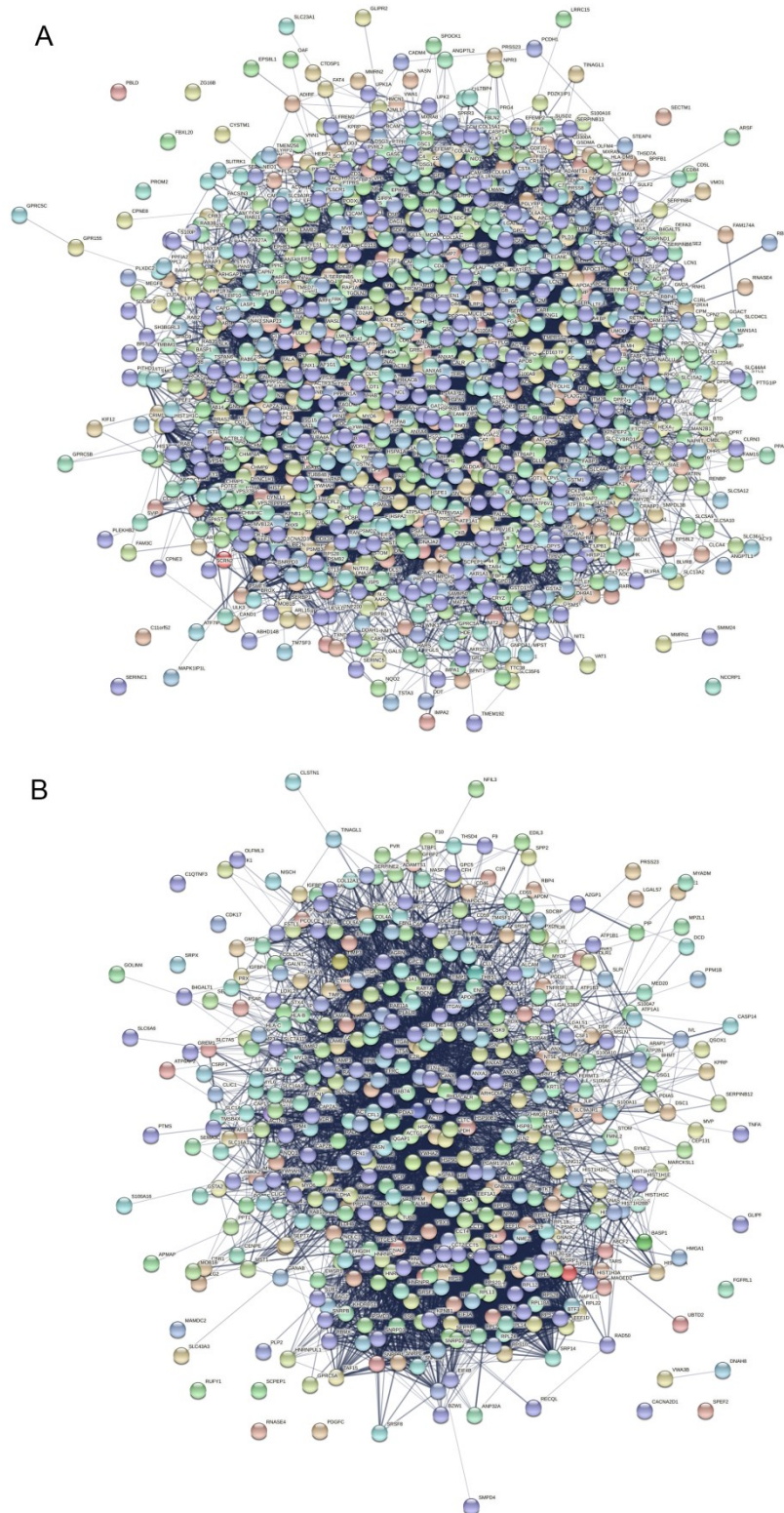


Figure S3 PPI analysis of the subset of 1131 proteins quantified in MIP-isolated exosomes from both urine and ExoCarta database (A) and PPI analysis of the subset of 451 proteins quantified in MIP-isolated exosomes from both HeLa-CCM and ExoCarta database (B)

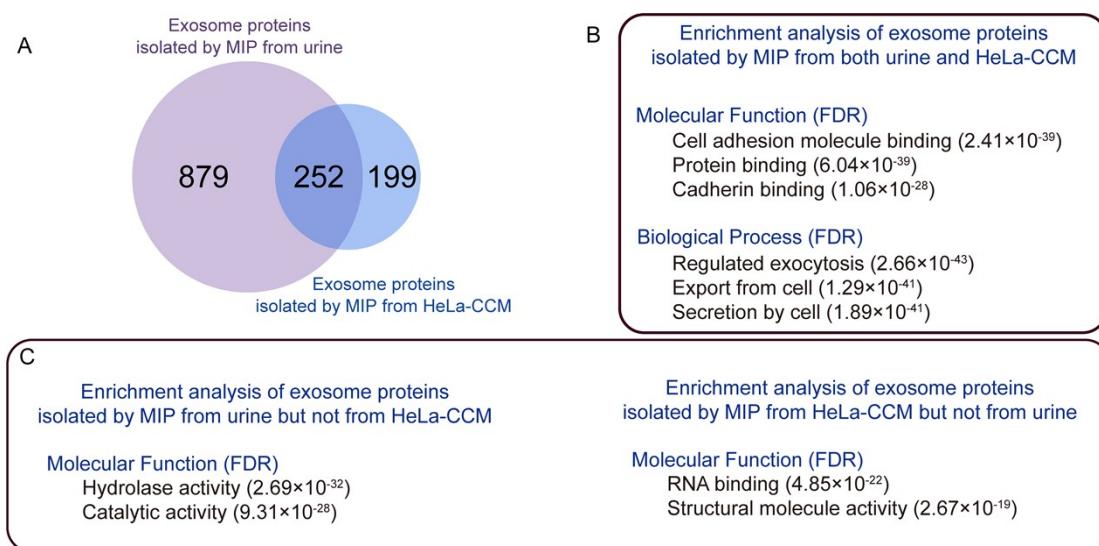


Figure S4 Comparative analysis of the proteins identified in both ExoCarta and MIP from the urine and HeLa-CCM samples. (A) The Venn diagram of exosome proteins isolated by MIP from urine compared with that from HeLa-CCM. (B) Gene Ontology enrichment analysis for molecular functions of exosome proteins isolated by MIP from both the urine and HeLa-CCM. (C) Gene Ontology enrichment analysis for molecular functions of exosome proteins isolated by MIP from urine but not from HeLa-CCM (left) and from HeLa-CCM but not from urine (right).

Table S1 Gene Ontology enrichment analysis of proteins enriched by MIP from urine and HeLa-CCM that are not in the database.

Samples	Prominent GO categories		FDR/P-value
Proteins from urine identified in MIP but not in ExoCarta	Biological process	Cell adhesion	4.03×10^{-8}
		Immune response	2.51×10^{-6}
Proteins from HeLa-CCM identified in MIP but not in ExoCarta	Cellular Component	Extracellular region	6.10×10^{-4}
		Golgi apparatus	0.048
		Extracellular space	0.049
	Biological process	Extracellular matrix organization	0.002
		Cellular response to vascular endothelial growth factor stimulus	0.007