

Table S1: Hydrodynamic size, PDI (polydispersion index) and zeta potential of exosomes according to the labeling steps

	Exo	Exo-NOTA	Cy7-Exo-NOTA	Cy7-Exo-NOTA-⁶⁴Cu
Size(nm)	160.3±28.06	163.7±19.44	189.9±21.33	185.6±23.18
PDI ¹	0.306	0.370	0.494	0.457
Zeta (Mv)	-21.8±2.95	-18.8±2.655	-15.5±1.97	-14.9±2.79

¹polydispersion index.

Supplementary Figures

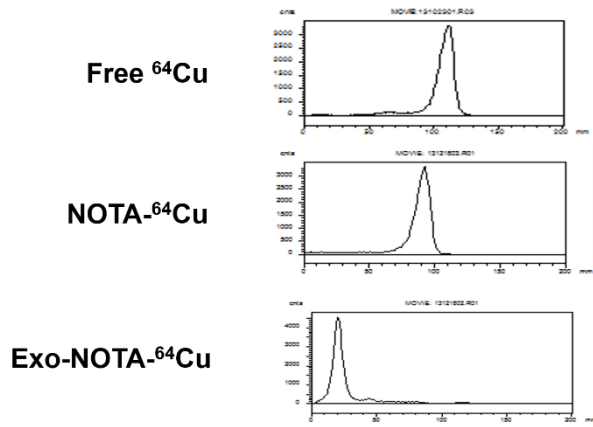


Figure S1: Thin layer chromatography of ^{64}Cu .

After labelling with radioisotopes, thin layer chromatography indicates labelling efficiency.

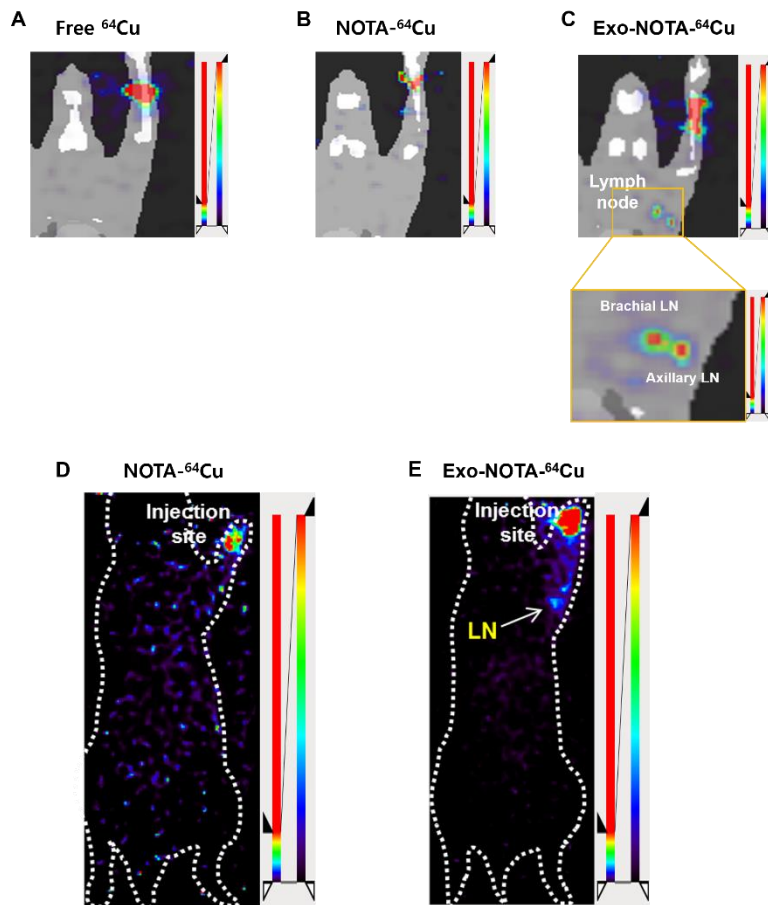


Figure S2: ^{64}Cu images in the lymphatic route

(A) Free ^{64}Cu is compared with NOTA- ^{64}Cu (B) and Exo-NOTA- ^{64}Cu (C). (D, E) Whole body PET images indicate no significant uptake in other organs.

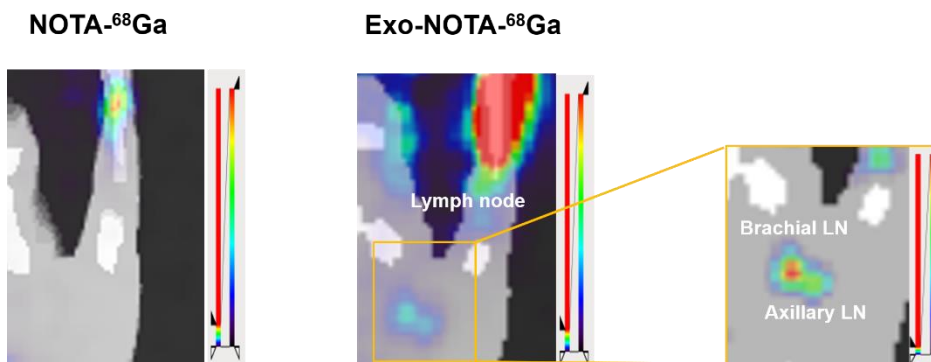


Figure S3: ^{68}Ga -labeled exosomes in the lymphatic route.

Exo-NOTA- ^{68}Ga compared with NOTA- ^{68}Ga .

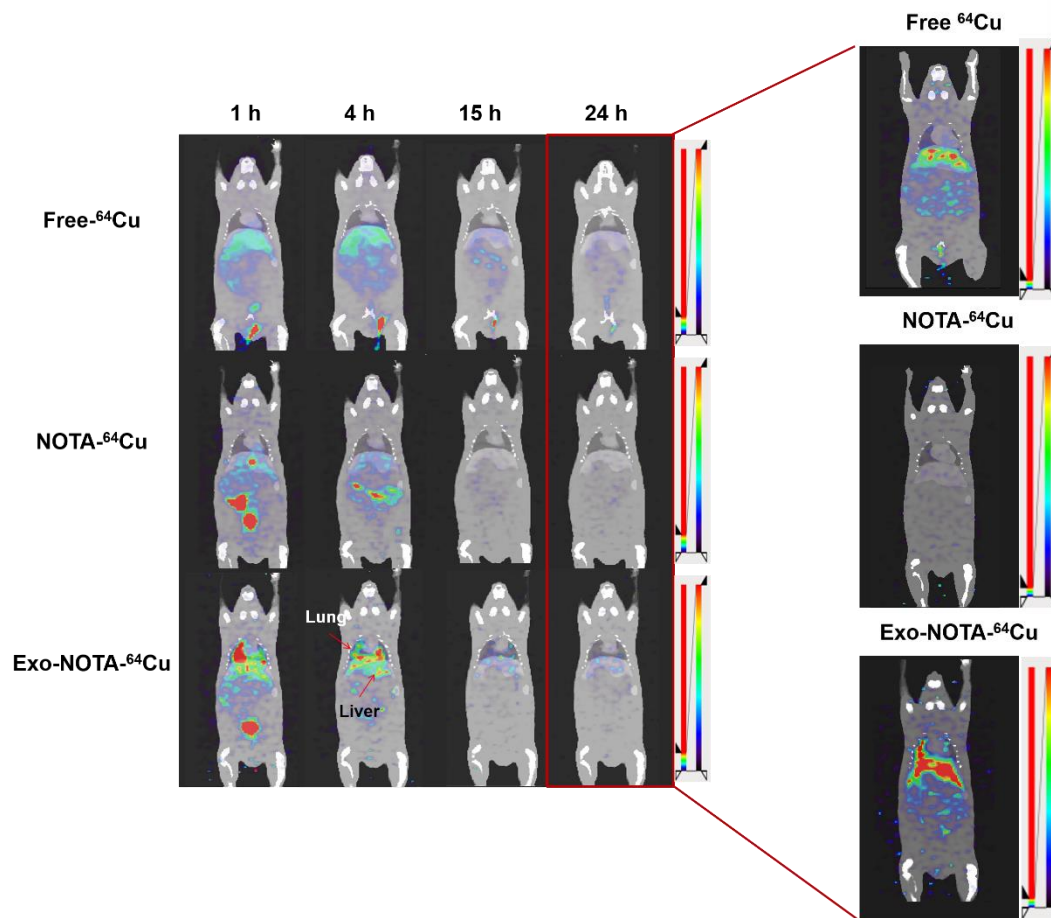


Figure S4: Free- ^{64}Cu images in the hematogenous route.

Free ^{64}Cu is compared with NOTA- ^{64}Cu and Exo-NOTA- ^{64}Cu .

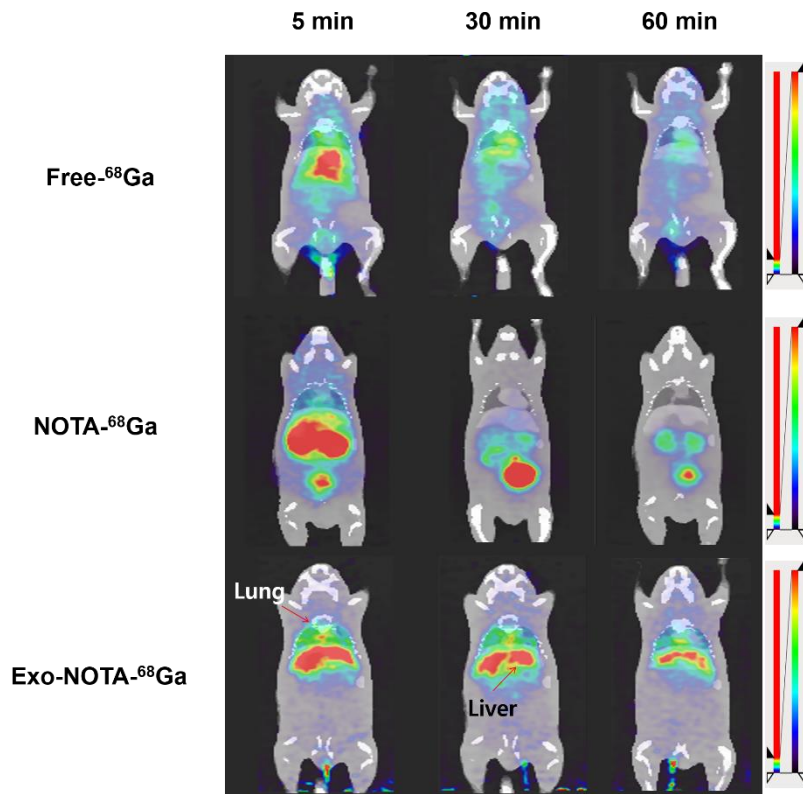


Figure S5: ⁶⁸Ga-labeled exosomes in the hematogenous route.

Exo-NOTA-⁶⁸Ga is compared with Free-⁶⁸Ga and NOTA-⁶⁸Ga.