

Figure S1. Representative surface plasmon resonance sensograms of fucoidan successively injected (0 M, 100 nM, 300 nM, 1 μ M, 3 μ M) with a flow rate of 30 μ L/min over SPR CM5 sensorchips on which P-Selectin was immobilized. Dextran was used as a negative control. Association (Ka), dissociation (Kd) and affinity (KD) constants of fucoidan for P-Selectin, calculated using a 1:1 Langmuir binding model, were Ka=2.5 10³ M, Kd=3.2 10⁻⁵ M and KD=1.2 10⁻⁸ M.

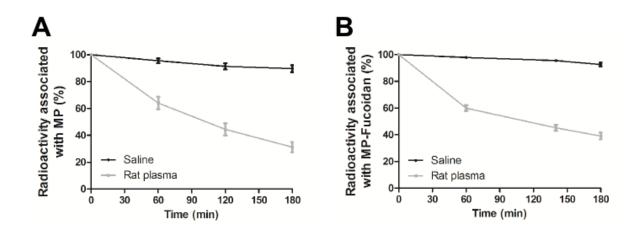


Figure S2. Radiolabeling stability of ^{99m}Tc-MP (**A**) and ^{99m}Tc-MP-Fucoidan (**B**) microparticles incubated in saline or rat plasma at room temperature, expressed as a percentage of initial radioactivity associated with microparticles as a function of time. Results are presented as mean values \pm SEM (n=3).

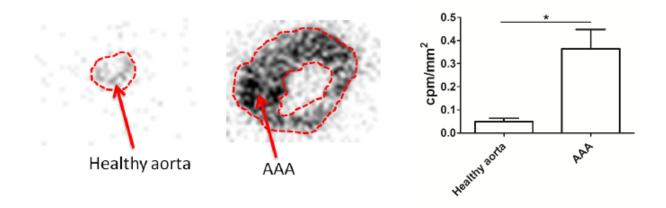


Figure S3. Autoradiography images of histological sections of abdominal aorta of healthy rats and of AAA rats 60 minutes after injection of ^{99m}Tc-MP-Fucoidan. Results were expressed in mean count per minute (cpm) per area of interest \pm SEM (doted lines, mm²) (n=3 rats per group, with at least 15 sections per rat, * p<0.05).