Table S1. Comparison of sensitivity of different detection methods.

Detection substrate	Detection method	Detection target	Detection limit	Reference
Graphene oxide quantum dots	Elisa	Antigen (CEA, CA125, AFP, CA199, CA153)	~1 pg/mL or 0.01 U/mL	[34]
Graphene	Electrochemical impedence spectroscopy	Antigen (CA125)	~1 ng/μL	[23]
Poly-L-lysine	Elisa	Antigen (IFN-γ, IL-6, TNF-α, etc.)	~10 pg/mL	[36]
Graphene oxide	Elisa	Antigen (CA125, HE4, CEA, AFP)	~1 pg/mL or 0.01 U/mL	This work

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