

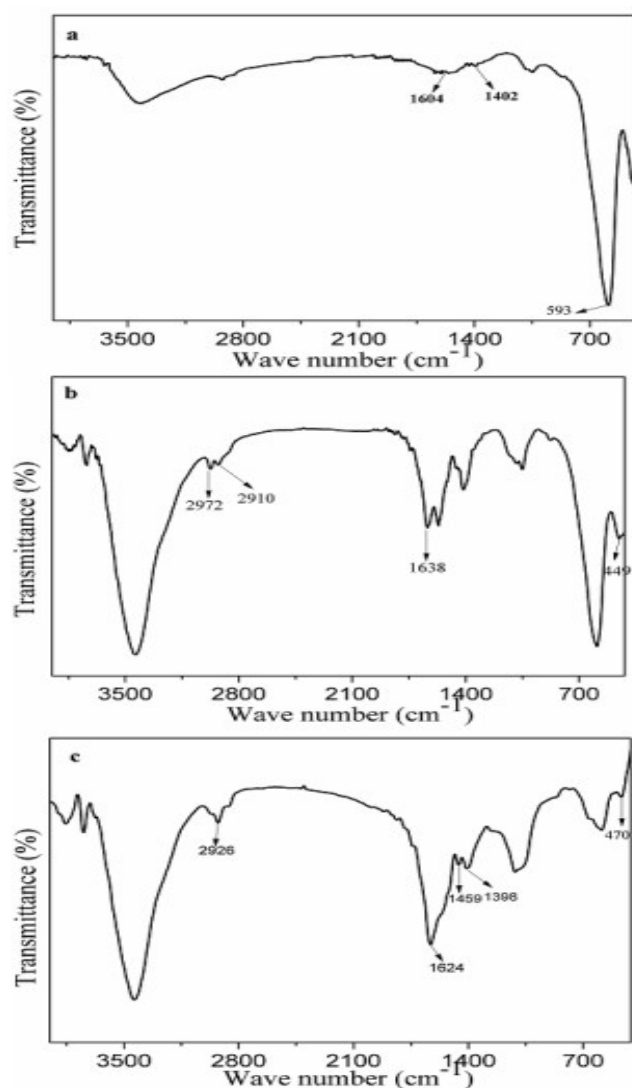
## Support Information

### **A designable aminophenylboronic acid functionalized magnetic Fe<sub>3</sub>O<sub>4</sub>/ZIF-8/APBA for specific recognition of glycoproteins and glycopeptides**

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**FigureS1.** FT-IR spectra of  $\text{Fe}_3\text{O}_4$  (a),  $\text{Fe}_3\text{O}_4/\text{ZIF-8}$  (b), and  $\text{Fe}_3\text{O}_4/\text{ZIF-8}/\text{APBA}$  NPs (c).

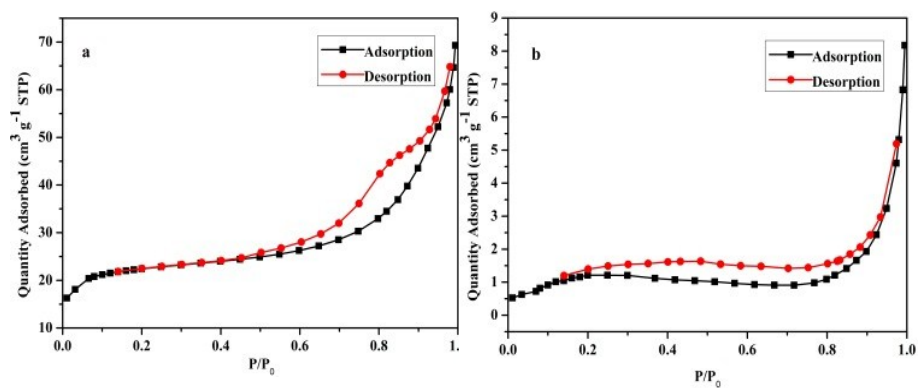


Figure S2.  $\text{N}_2$  sorption-desorption isotherms of the as-prepared  $\text{Fe}_3\text{O}_4/\text{ZIF-8}$  (a) and  $\text{Fe}_3\text{O}_4/\text{ZIF-8}/\text{APBA}$  (b) NPs measured at 77 K.

Table S1. Detailed information of the glycopeptides enriched by Fe<sub>3</sub>O<sub>4</sub>/ZIF-8/APBA from tryptic digestion of HRP.

Peak number	Observed m/z	Glycan composition	Amino acid sequence <sup>[a]</sup>
H1	2533	FucGlcNAc	SFAN#STQTFNFAFVEAMDR
H2	2594	XylMan3FucGlcNAc2	PTLN#TTYLQTLR
H3	2851	FucGlcNAc	GLIQSDQELFSSPN#ATDTIPLV R
H4	3323	XylMan3FucGlcNAc2	QLTPTFYDNPCPN#VSNIVR
H5	3353	XylMan3FucGlcNAc2	SFAN#STQTFNFAFVEAMDR
H6	3671	XylMan3FucGlcNAc2	GLIQSDQELFSSPN#ATDTIPLV R

[a] The *N*-glycosylation sites are marked with N#. GlcNAc = *N*-acetylglucosamine, Man = mannose, Gal = galactose.