

Supplementary information

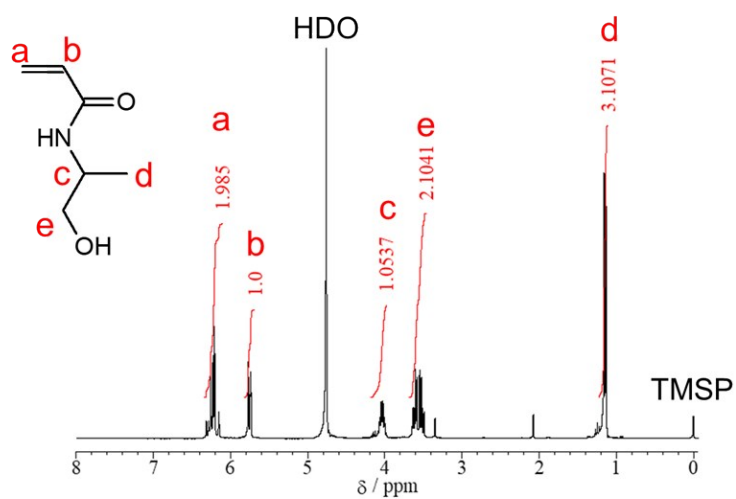


Fig. S1 ¹H-NMR spectrum of HIPAAm in D₂O containing 0.05 v/v% TMSP.

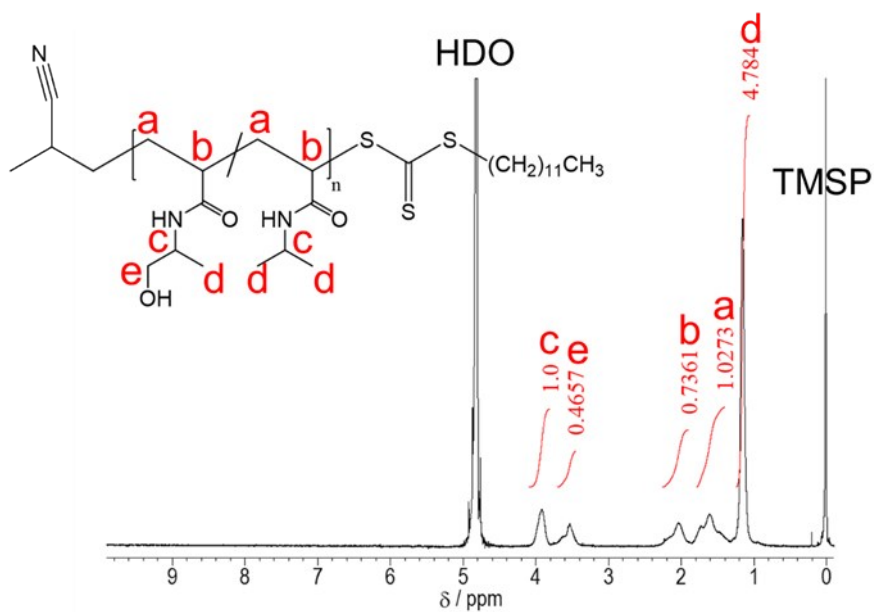


Fig. S2 ¹H-NMR spectrum of P(NIPAAm-co-HIPAAm) in D₂O containing 0.05 v/v% TMSP.

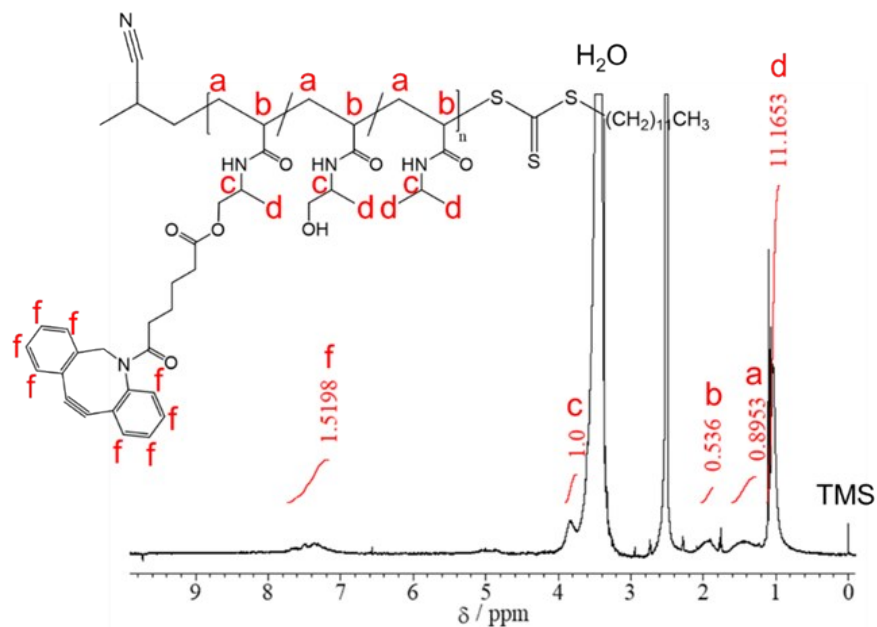


Fig. S3 ¹H-NMR spectrum of P(NIPAAm-co-HIPAAm-co-SAKIPAAm) in DMSO-*d*₆ containing 0.05 v/v% TMS.

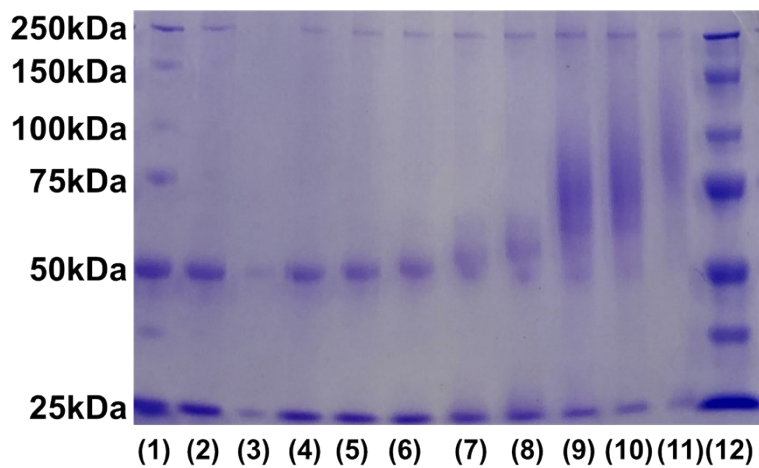


Fig. S4 Click reactions of polymer and several azido-IgG were observed by SDS-PAGE ((1) protein standard (2) IgG (3) azido-IgG (4) azido/IgG = 0.5 (mol/mol) (5) 2.0 (6) 4.3 (7) 5.5 (8) 8.2 (9) 8.5 (10) 10.7 (11) 11.0 (12) protein standard.)

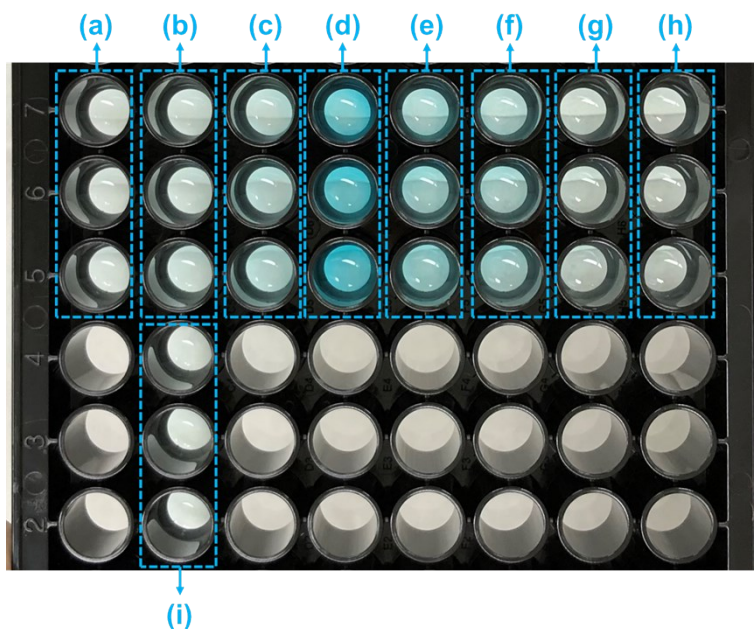


Fig. S5 ELISA plate showing the antigen enrichment estimation after heat precipitation. (a)-(h) showing the antigen enrichment using different IgG-polymer conjugate ratios ((a) azido/IgG = 0.5 (mol/mol) (b) 2.0 (c) 4.3 (d) 5.5 (e) 8.2 (f) 8.5 (g) 10.7 (h) 11.0 and (i) shows the original concentration of antigen.



Paper Chromatography_Movie.MOV

Fig. S6 Antigen visualization by paper chromatography. Antigen was visualized (a) before and (b) after enrichment using paper chromatography. The playback speed of this video was 4x.