

Electronic Supplementary Material

Preparation of copolymer-grafted mixed-mode resins for immunoglobulin G adsorption

Shenggang Chen*, Tao Liu*, Ruiqi Yang, Dongqiang Lin, Shanqing Yao (✉)

Key Laboratory of Biomass Chemical Engineering of Ministry of Education, College of Chemical and Biological Engineering, Zhejiang University, Hangzhou 310027, China

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E-mail: yaosj@zju.edu.cn

*These authors contributed equally to this work

Table S1 Main parameters of the dextran standards for ISEC

Dextran	M_w /Da	M_p /Da	M_n /Da	IV*/dl·gm ⁻¹	R_η /nm
DXT180	180	180	180	0.012	0.36
DXT350	342	342	342	0.016	0.50
DXT1K	1000	1200	900	0.028	0.85
DXT4K	3400	4300	3250	0.055	1.55
DXT21K	20400	20000	13500	0.128	3.79
DXT47K	43000	47250	30250	0.206	5.50
DXT147K	133100	147600	107200	0.274	9.66
DXT275K	238000	275900	204600	0.463	12.90
DXT420K	369100	420000	266100	0.473	16.05
DXT3755K	2164000	3755000	1385000	1.679	38.72

Note: M_p is the molar mass at peak maximum, M_w and M_n are the weight-average and number-average molar masses, respectively, IV* is the intrinsic viscosity, and R_η is the viscosity radius.

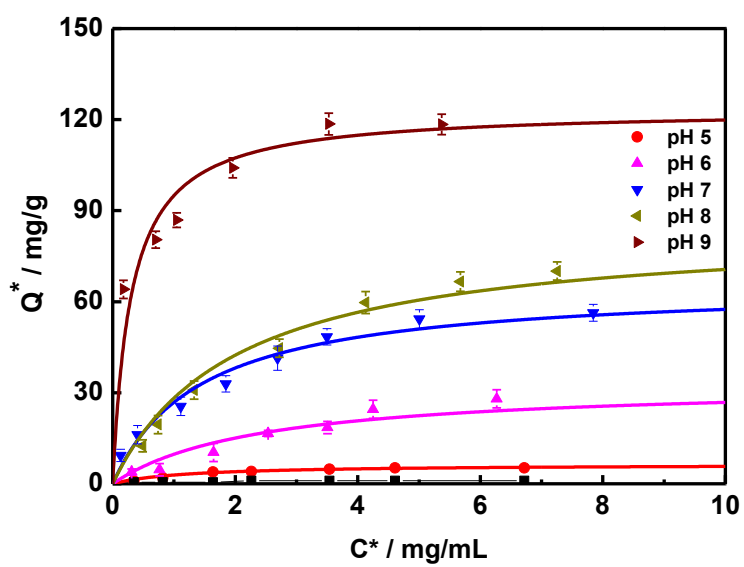


Fig. S1 Adsorption isotherms of hIgG on CG-M330-A230 at different pH

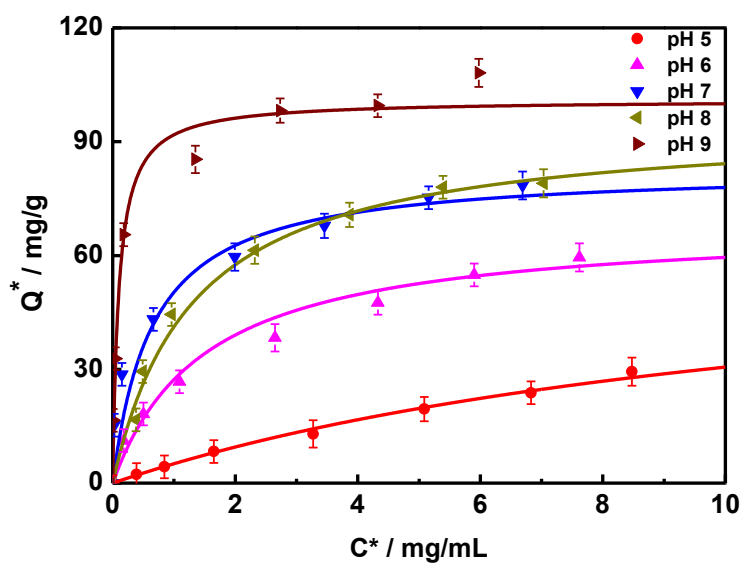


Fig. S2 Adsorption isotherms of hIgG on CG-M160-A260 at different pH

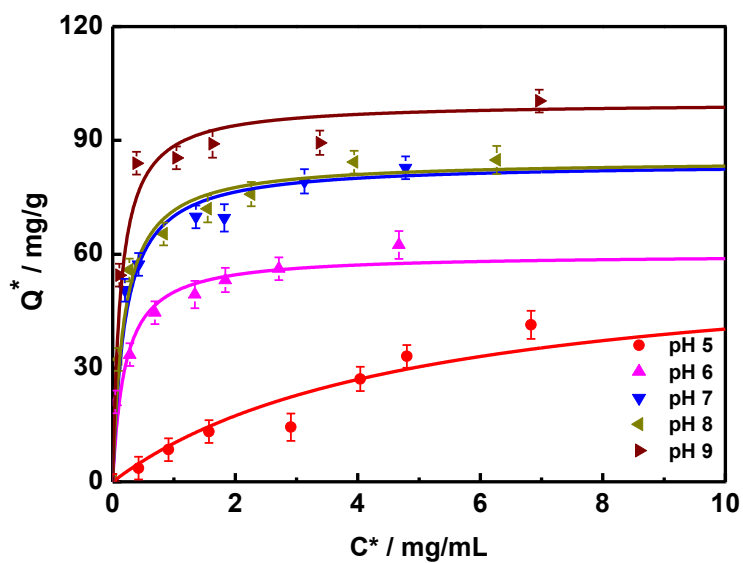


Fig. S3 Adsorption isotherms of hIgG on CG-M60-A300 at different pH

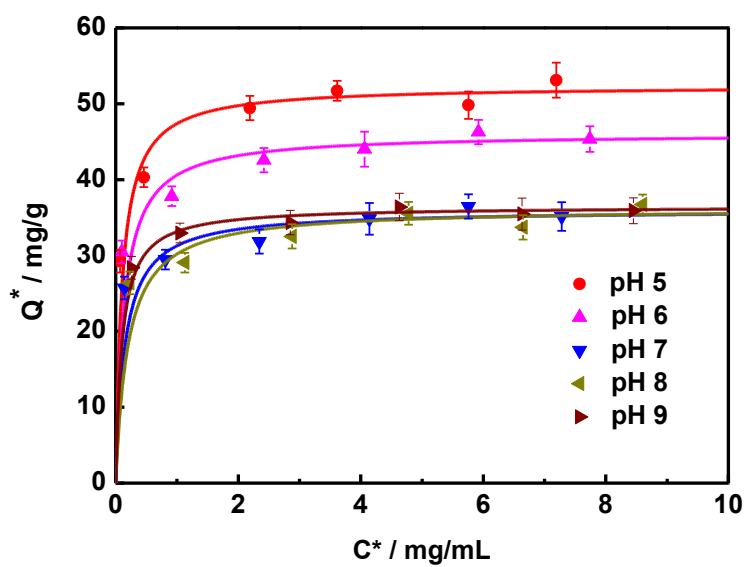


Fig. S4 Adsorption isotherms of hIgG on G-A320 at different pH

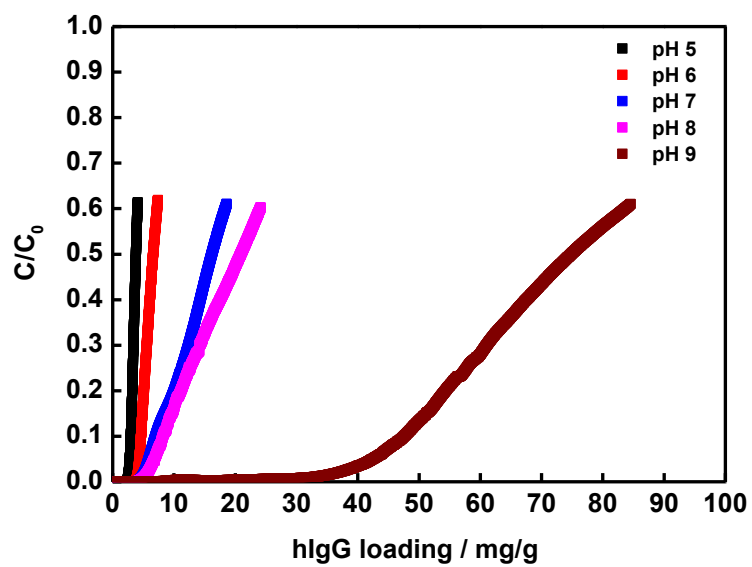


Fig. S5 Breakthrough curves of hIgG on CG-M330-A230 at different pH with linear velocity 200 cm h⁻¹

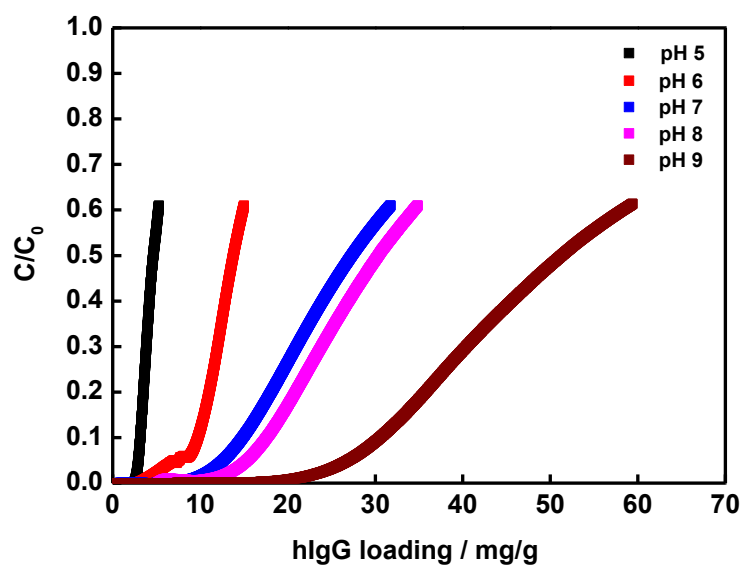


Fig. S6 Breakthrough curves of hIgG on CG-M160-A260 at different pH with linear velocity 200 cm h⁻¹

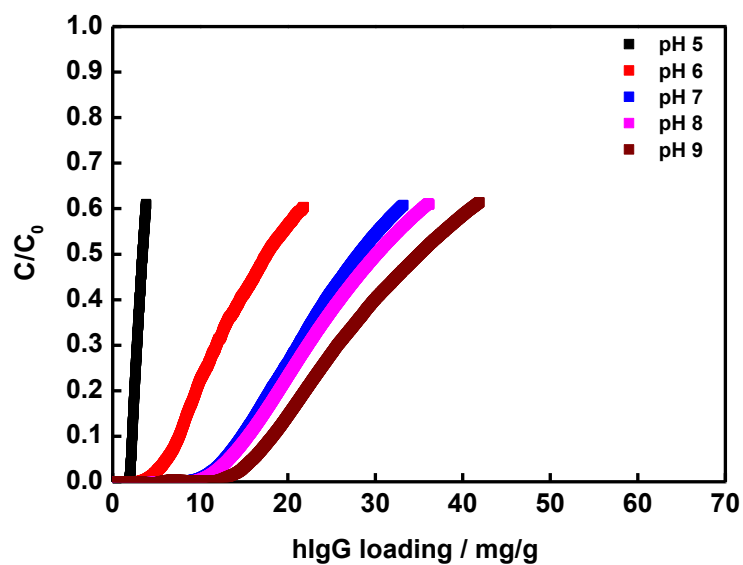


Fig. S7 Breakthrough curves of hIgG on CG-M60-A300 at different pH with linear velocity 200 cm h⁻¹

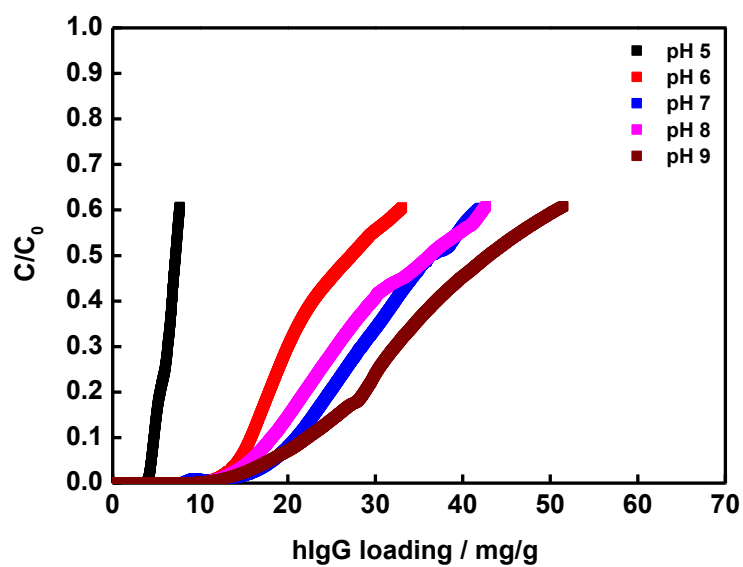


Fig. S8 Breakthrough curves of hIgG on G-A320 at different pH with linear velocity 200 cm h⁻¹

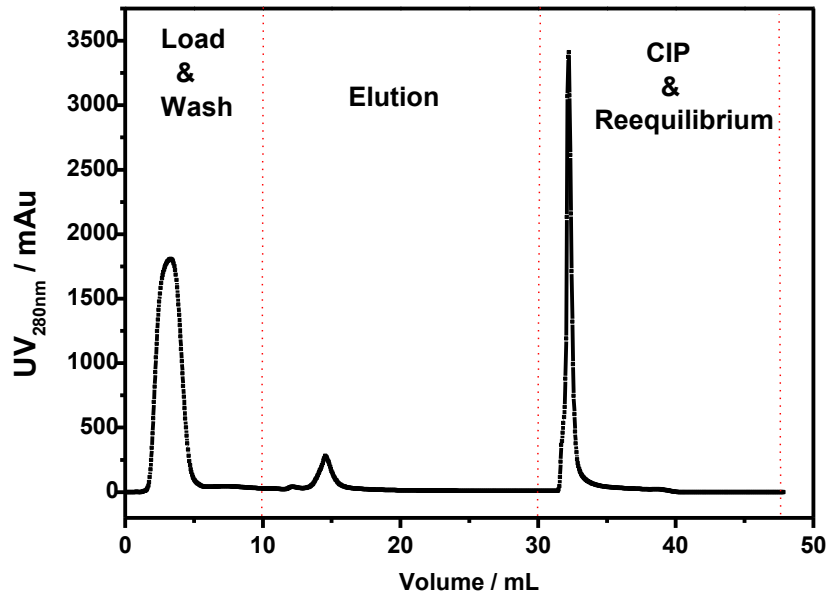


Fig. S9 Chromatographic separation of mAb from CHO cell culture supernatant