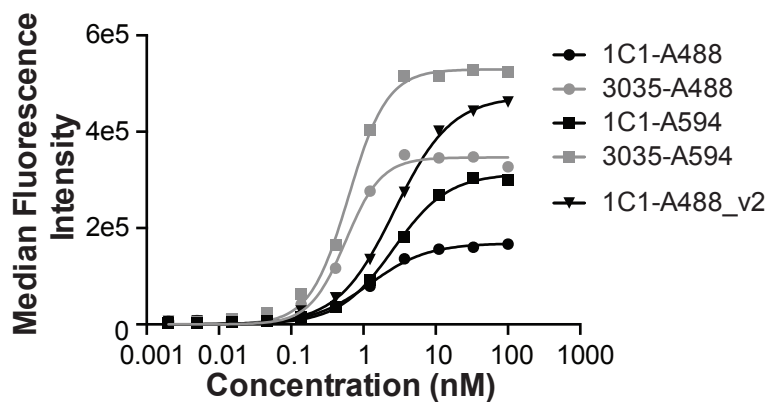
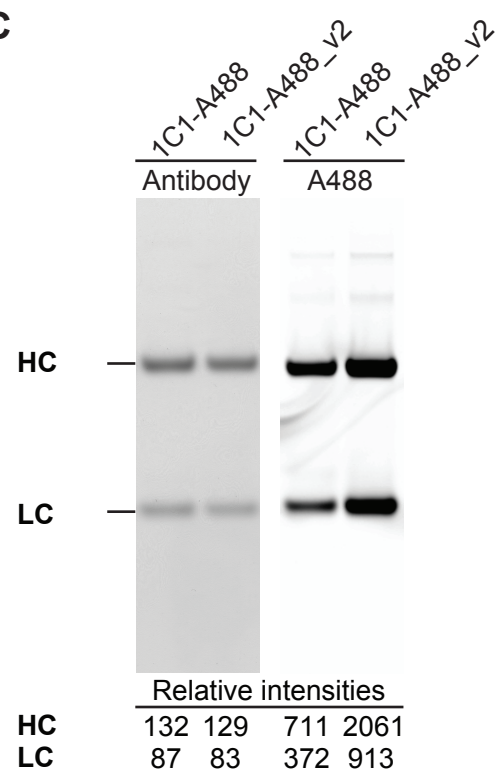
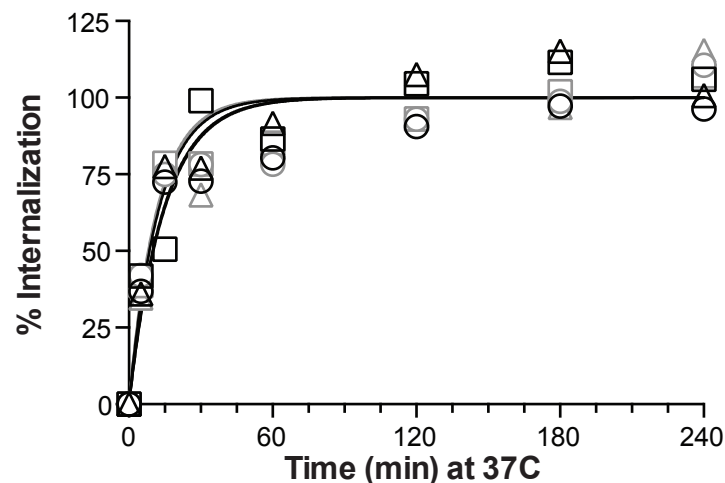


A

Antibody	K_D (nM)	k_{on} ($\times 10^5 M^{-1} s^{-1}$)	k_{dis} ($\times 10^{-3} s^{-1}$)
1C1	110 \pm 9	0.93 \pm 0.05	10.3 \pm 0.6
1C1-A488	96.9 \pm 13.0	1.12 \pm 0.09	10.8 \pm 1.1
1C1-A488_v2	115 \pm 42	1.39 \pm 0.13	15.7 \pm 4.4
1C1-A594	62.3 \pm 26.7	1.75 \pm 0.06	8.72 \pm 1.04
3035	3.66 \pm 0.16	3.33 \pm 0.11	1.22 \pm 0.04
3035-A488	3.40 \pm 0.15	3.75 \pm 0.21	1.27 \pm 0.03
3035-A594	1.87 \pm 0.36	4.79 \pm 0.73	0.88 \pm 0.06

B

Antibody Conjugate	K_d [nM]	95% CI (nM)
1C1-A488	1.23	0.92 - 1.53
3035-A488	0.57	0.46 - 0.67
1C1-A594	2.60	2.25 - 2.95
3035-A594	0.62	0.55 - 0.70
1C1-A488_v2	2.70	2.34 - 3.06

C**D**

	Quencher	Half-time (min)	95% CI (min)
1C1-A488	○ Anti-Alexa488 pAb	10	[7 - 20]
	□ Anti-Alexa488-19A	10	[7 - 20]
	△ Anti-Alexa488-30A	9	[6 - 15]
1C1-A488_v2	○ Anti-Alexa488 pAb	8	[5 - 18]
	□ Anti-Alexa488-19A	8	[5 - 14]
	△ Anti-Alexa488-30A	10	[6 - 23]

S1 Fig. Apparent affinities of anti-EphA2 mAbs and internalization of anti-EphA2 mAbs with different dye loads

(A) Kinetic measurement values for naked and dye-conjugated mAbs. The standard deviation is derived from a triplicate data set. (B) Apparent K_d of 1C1 and 3035 conjugated to either A488 or A594. For 1C1, the apparent K_d for a second A488 conjugate, 1C1-A488_v2, is also shown. (C) Coomassie stain (antibody) and A488 dye load of two 1C1-A488 conjugates. While 1C1-A488 had relative intensities of 370 on the light chain and 910 on the heavy chain, the second batch of 1C1-A488 (1C1-A488_v2) had relative intensities of 710 on the light chain and 2060 on the heavy chain. (D) Percent internalization of two 1C1-A488 conjugates with a 3-fold difference in dye load between the two conjugates over a 4-hr time course.