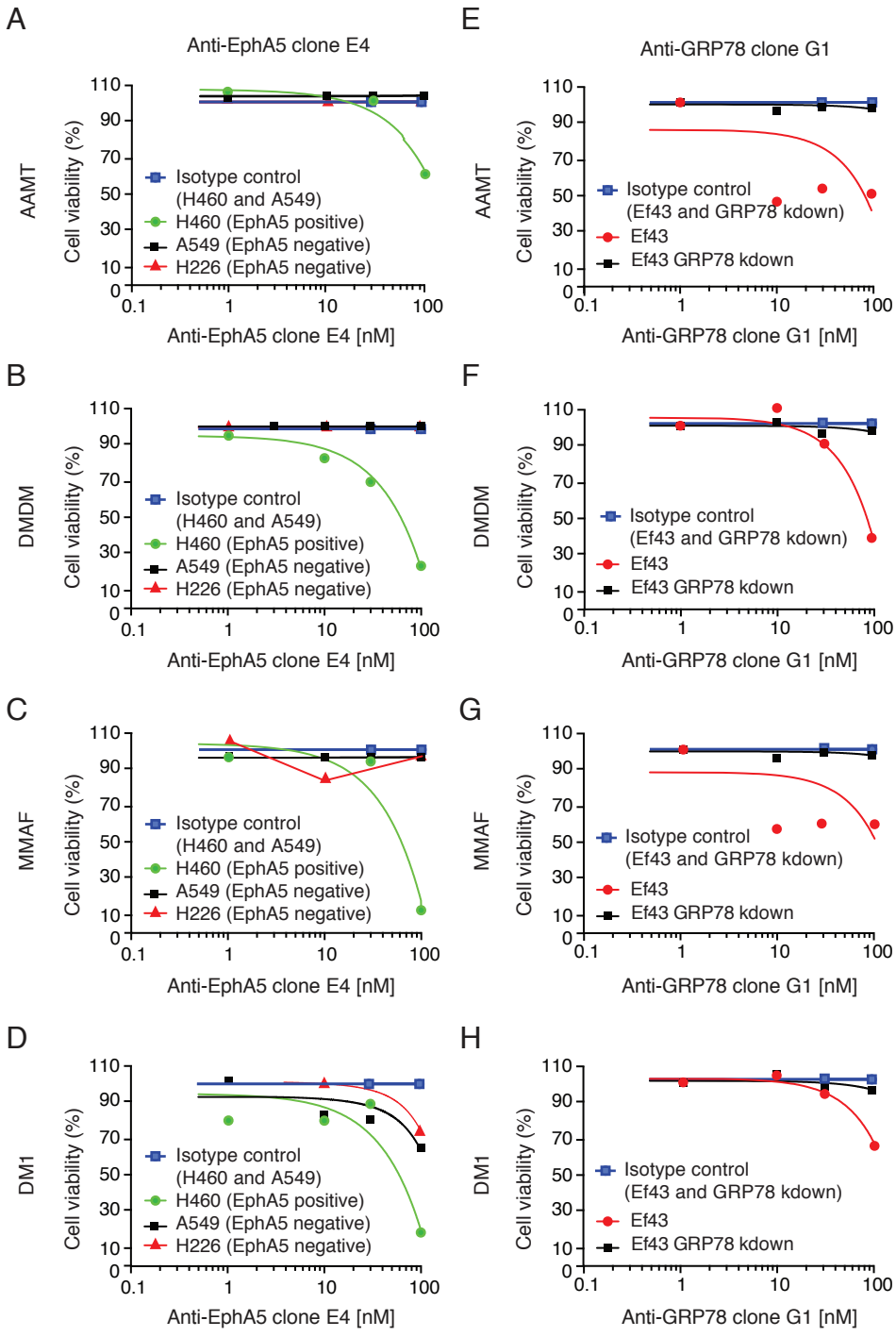
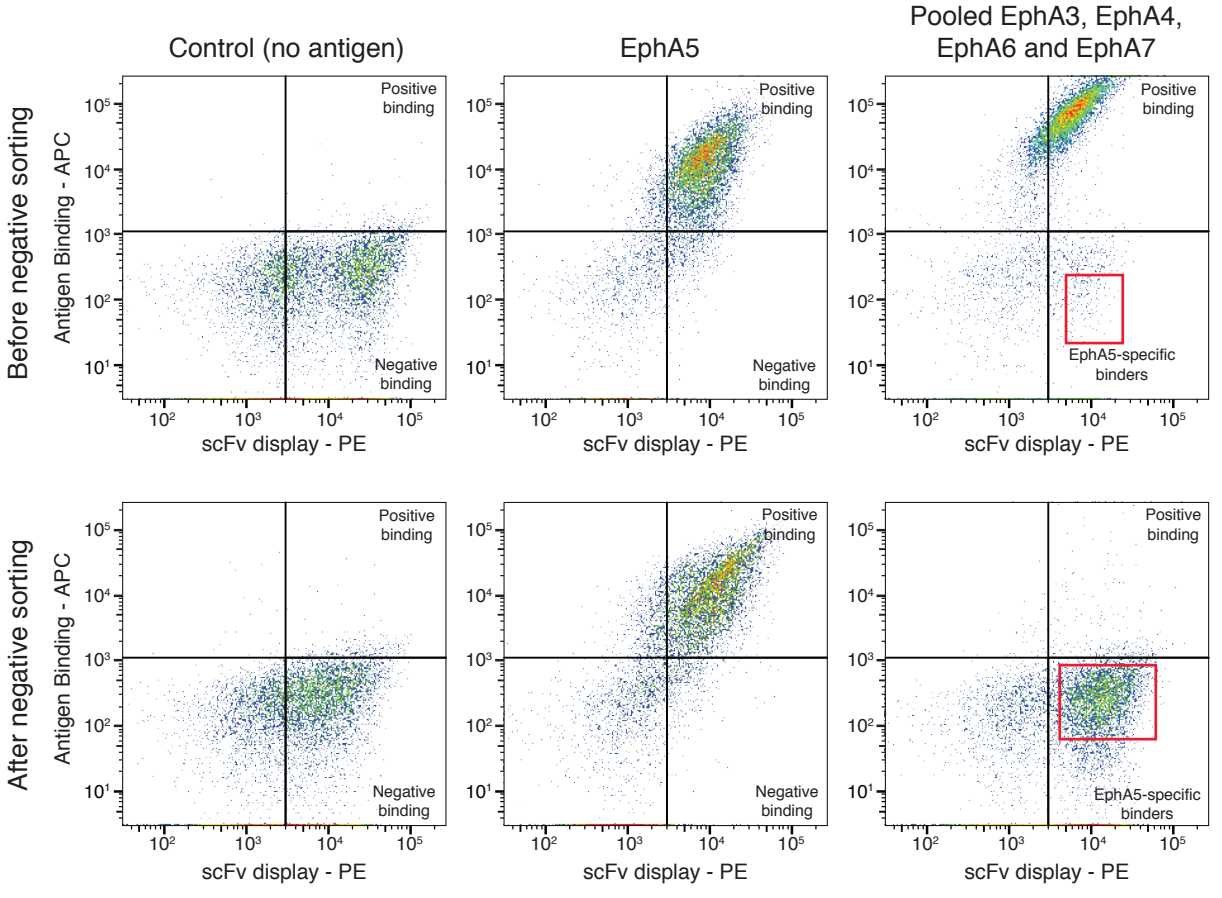
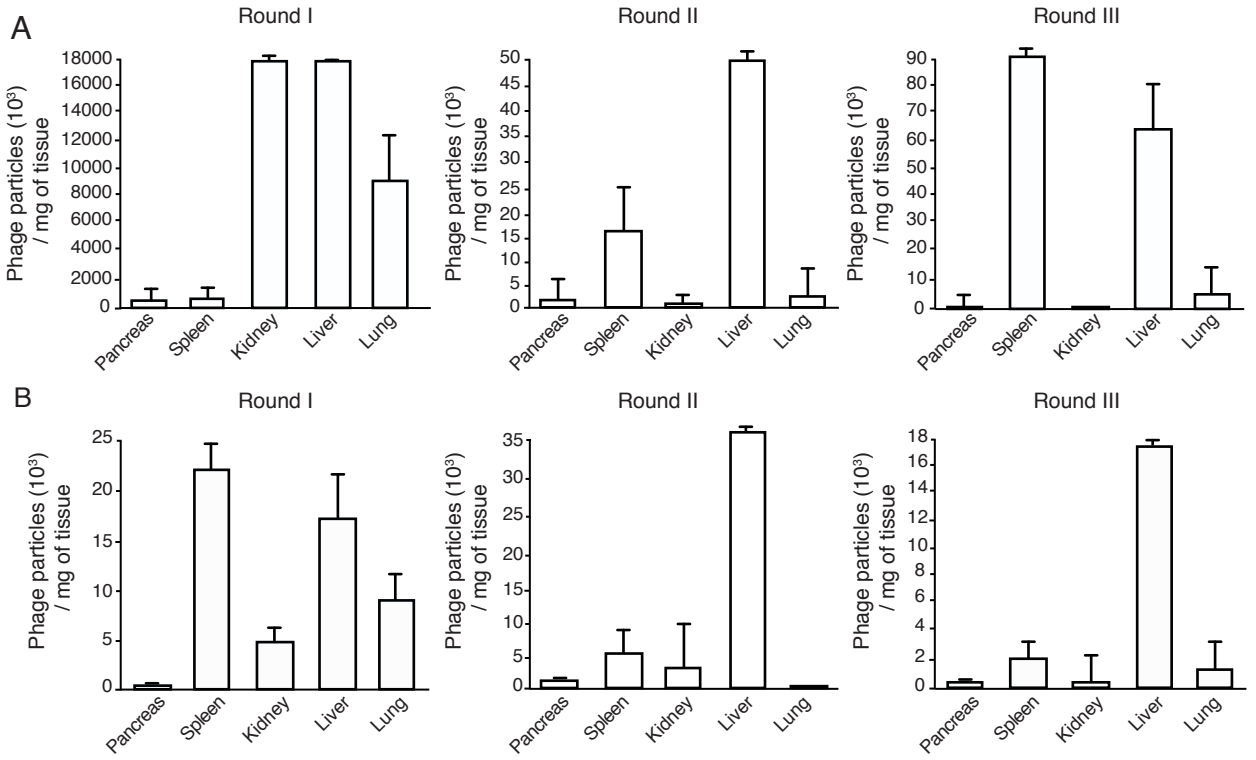

A
Anti-EphA5 clone E4
AAMT
Cell viability (%)
Isotype control
(H460 and A549)
H460 (EphA5 positive)
A549 (EphA5 negative)
H226 (EphA5 negative)
Anti-EphA5 clone E4 [nM]
E
Anti-GRP78 clone G1
AAMT
Cell viability (%)
Isotype control
(Ef43 and GRP78 kdown)
Ef43
Ef43 GRP78 kdown
Anti-GRP78 clone G1 [nM]
B
DMDM
Cell viability (%)
Isotype control
(H460 and A549)
H460 (EphA5 positive)
A549 (EphA5 negative)
H226 (EphA5 negative)
Anti-EphA5 clone E4 [nM]
F
DMDM
Cell viability (%)
Isotype control
(Ef43 and GRP78 kdown)
Ef43
Ef43 GRP78 kdown
Anti-GRP78 clone G1 [nM]
C
MMAF
Cell viability (%)
Isotype control
(H460 and A549)
H460 (EphA5 positive)
A549 (EphA5 negative)
H226 (EphA5 negative)
Anti-EphA5 clone E4 [nM]
G
MMAF
Cell viability (%)
Isotype control
(Ef43 and GRP78 kdown)
Ef43
Ef43 GRP78 kdown
Anti-GRP78 clone G1 [nM]
D
DM1
Cell viability (%)
Isotype control
(H460 and A549)
H460 (EphA5 positive)
A549 (EphA5 negative)
H226 (EphA5 negative)
Anti-EphA5 clone E4 [nM]
H
DM1
Cell viability (%)
Isotype control
(Ef43 and GRP78 kdown)
Ef43
Ef43 GRP78 kdown
Anti-GRP78 clone G1 [nM]

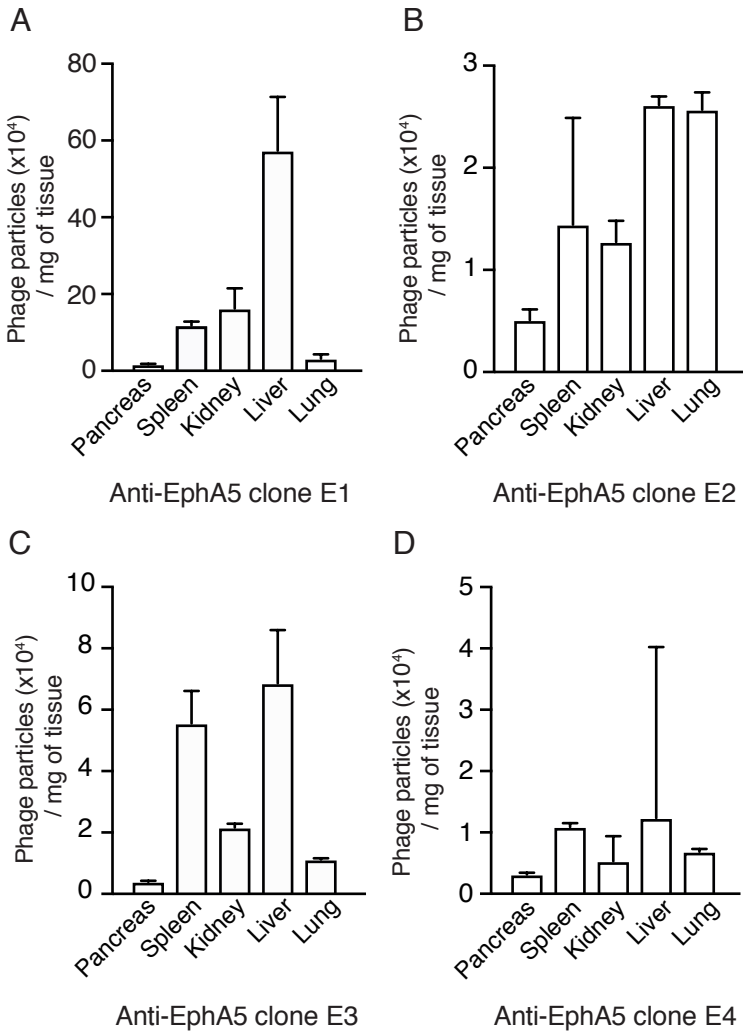
Supplemental Figure 1



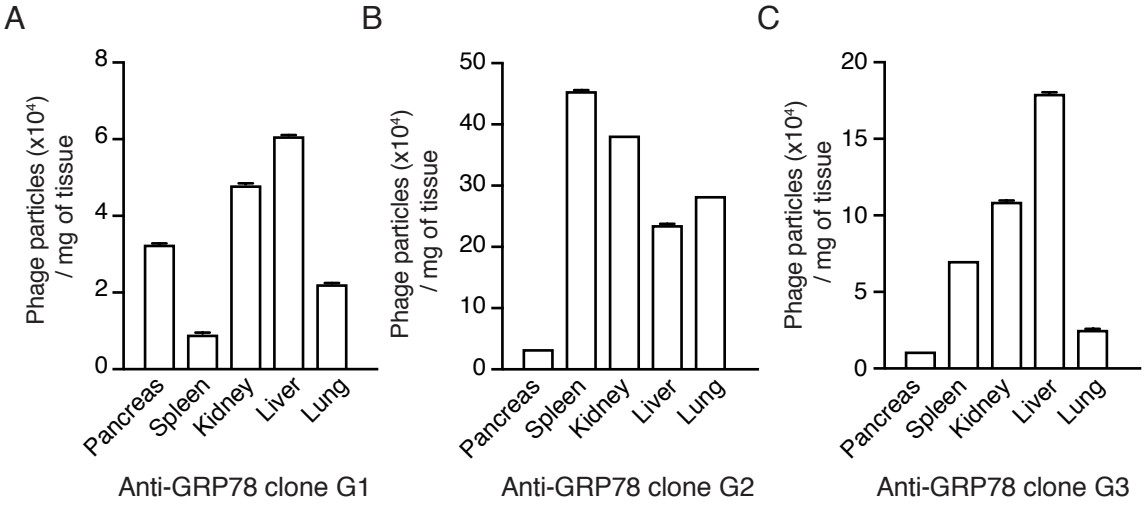
Supplemental Figure 2



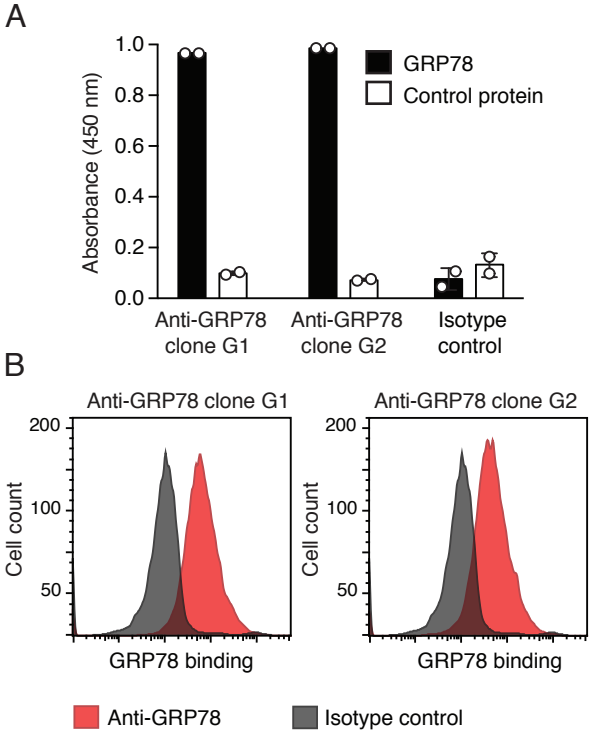
Supplemental Figure 3



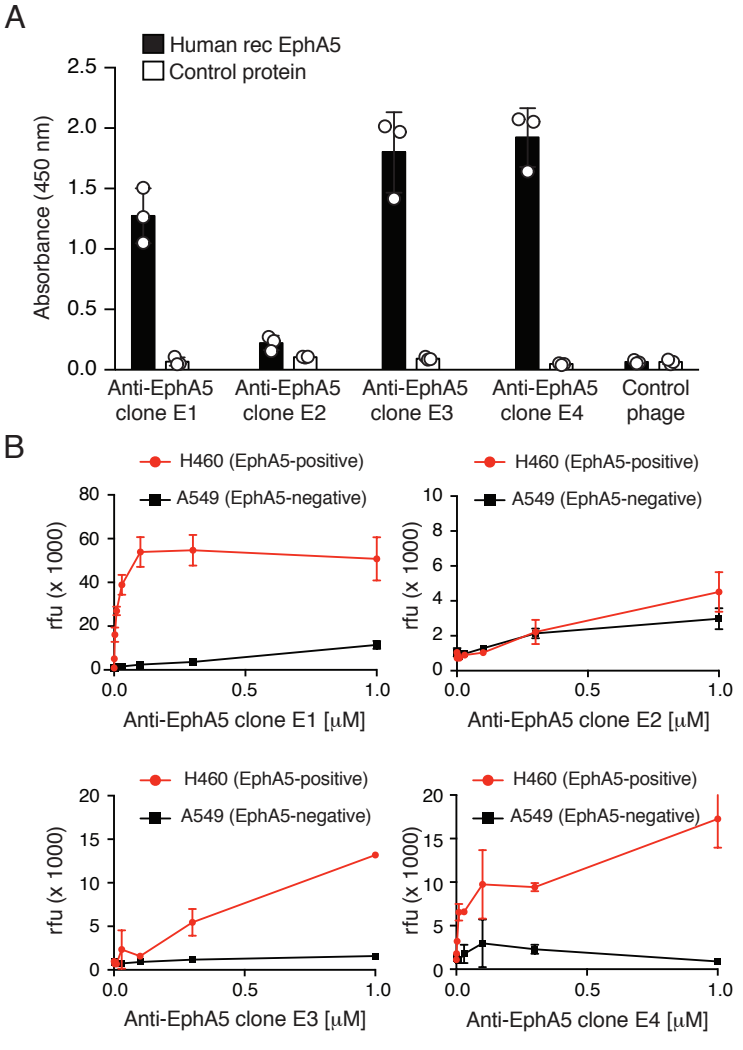
Supplemental Figure 4



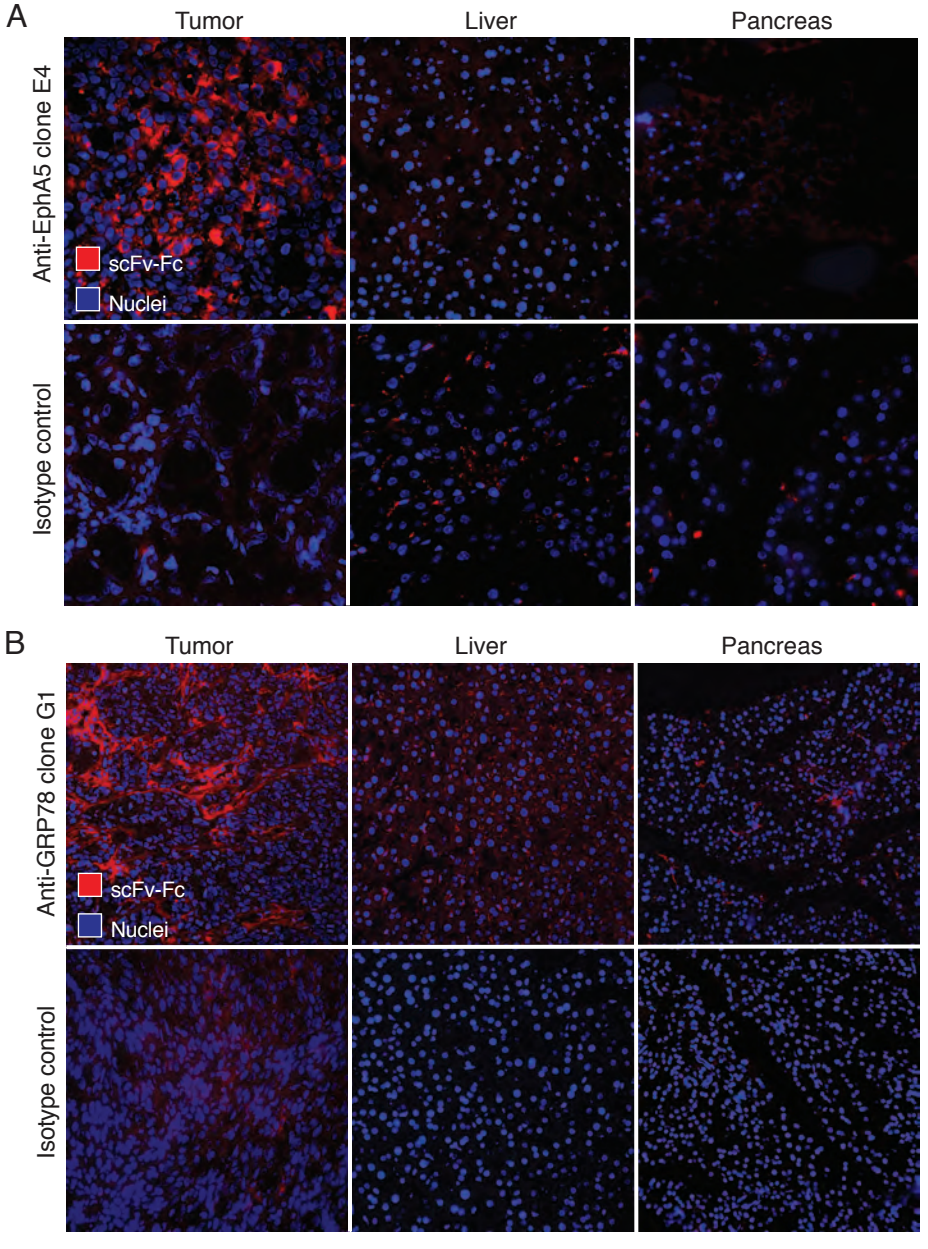
Supplemental Figure 5



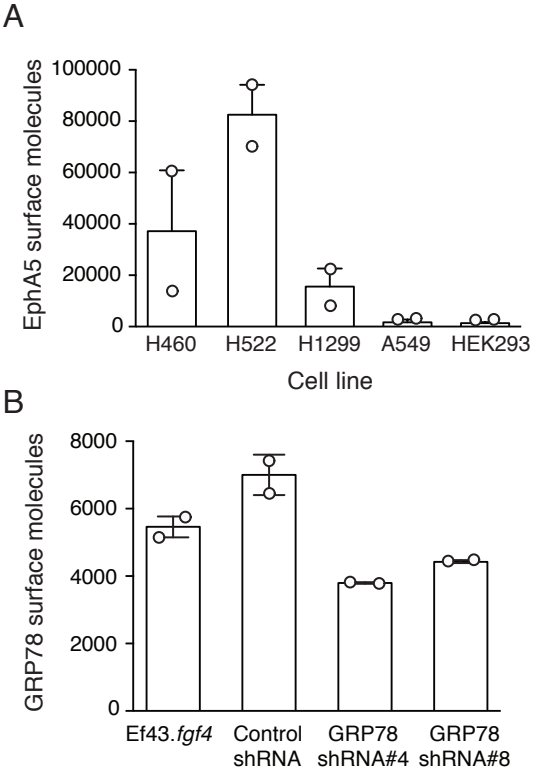
Supplemental Figure 6



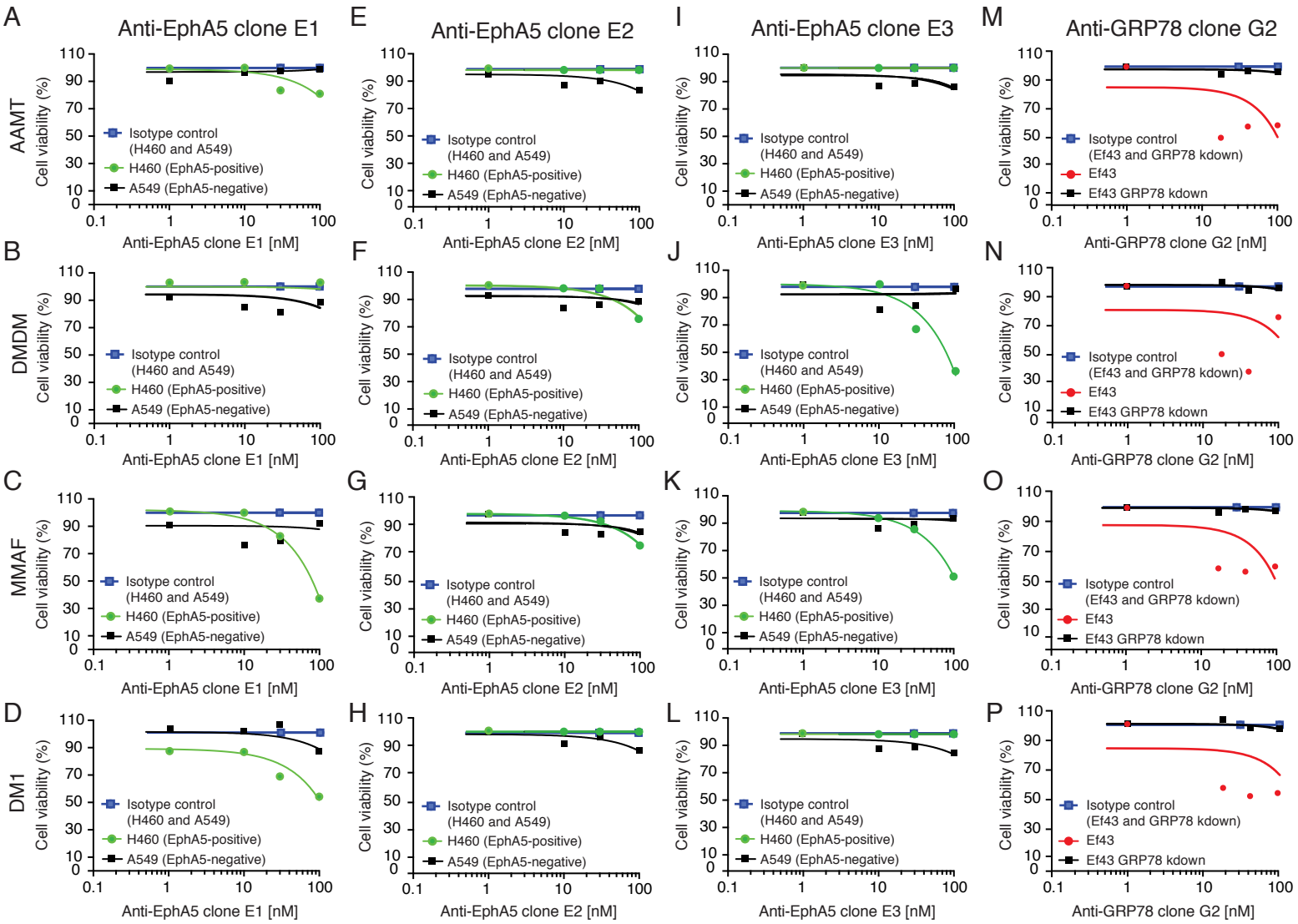
Supplemental Figure 7



Supplemental Figure 8



Supplemental Figure 9



Supplemental Table 1. HCDR3 sequences for anti-EphA5 and anti-GRP78 monoclonals

Clone	HCDR3 sequence
Anti-EphA5 (E1)	CATHAAAGDYW
Anti-EphA5 (E2)	CARVAAAGDYW
Anti-EphA5 (E3)	CAREGAFGGRK
Anti-EphA5 (E4)	CAREIWSGYAYFDLW
Anti-GRP78 (G1)	CARYSSIDAFEIW
Anti-GRP78 (G2)	CARDPYYYDSSGYYYFDAFGIW
Anti-GRP78 (G3)	CARDPYYYDSSGYYYFDAFDIW