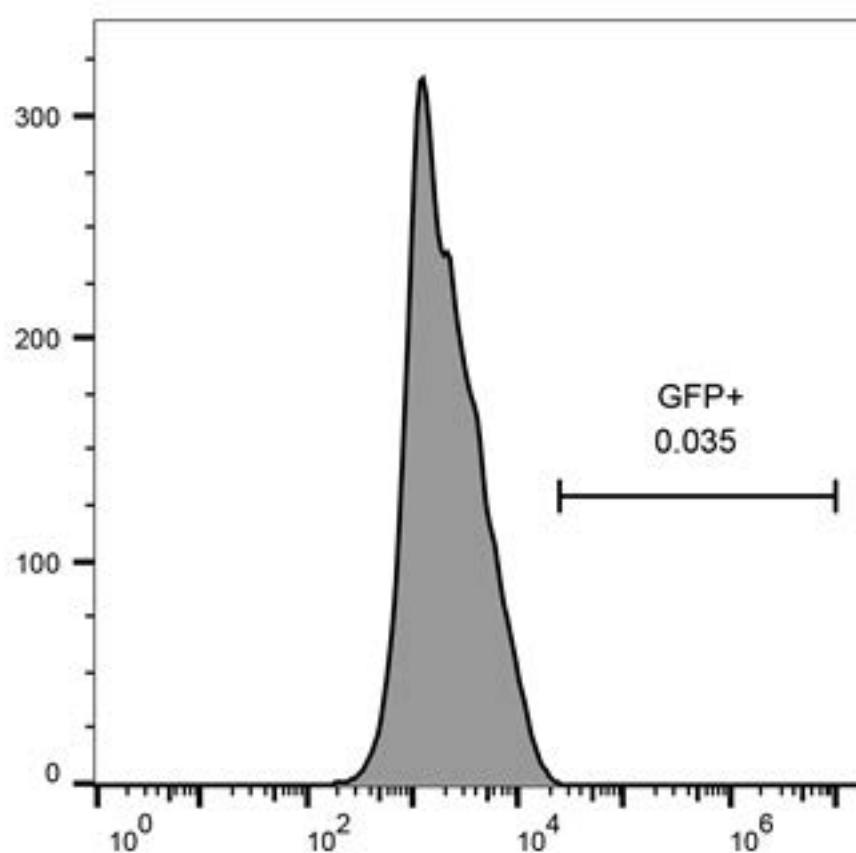


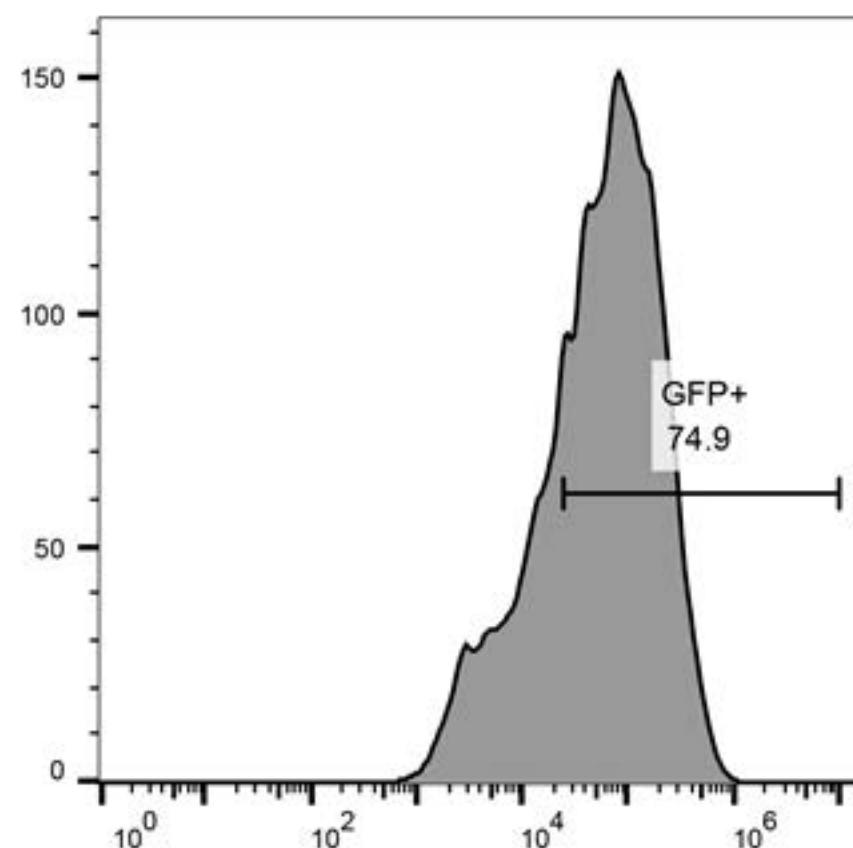
GFP-Empty
No Dox

A



GFP-Empty
Plus Dox

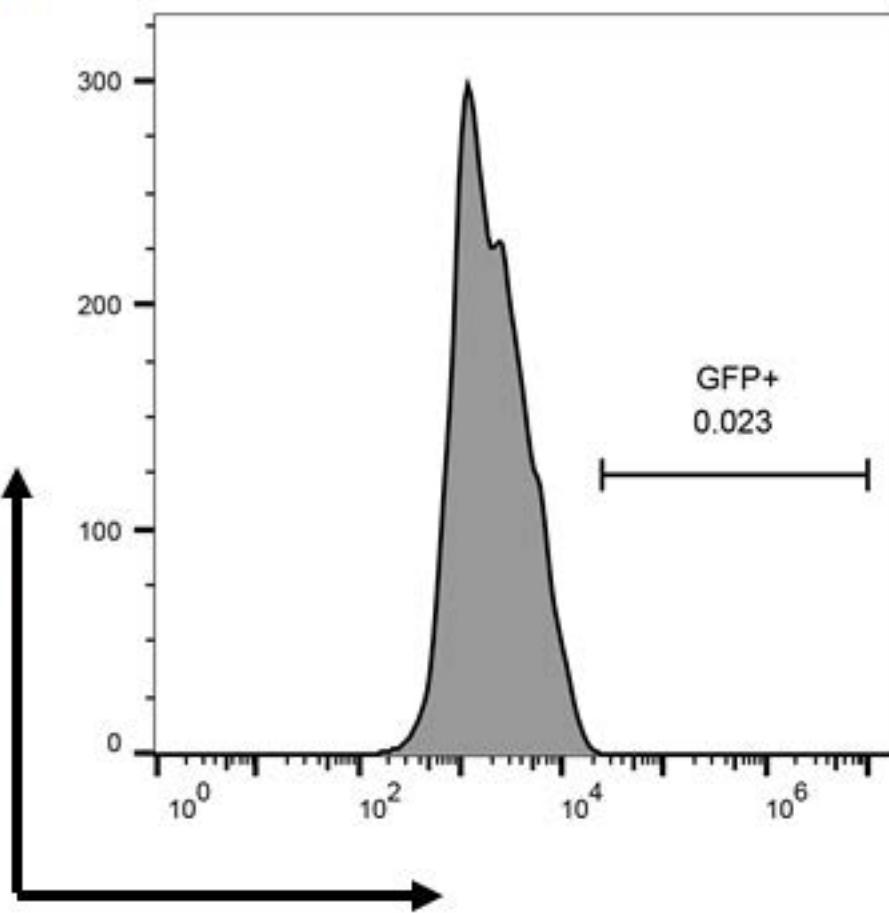
B



GFP-UBXN2A
No Dox

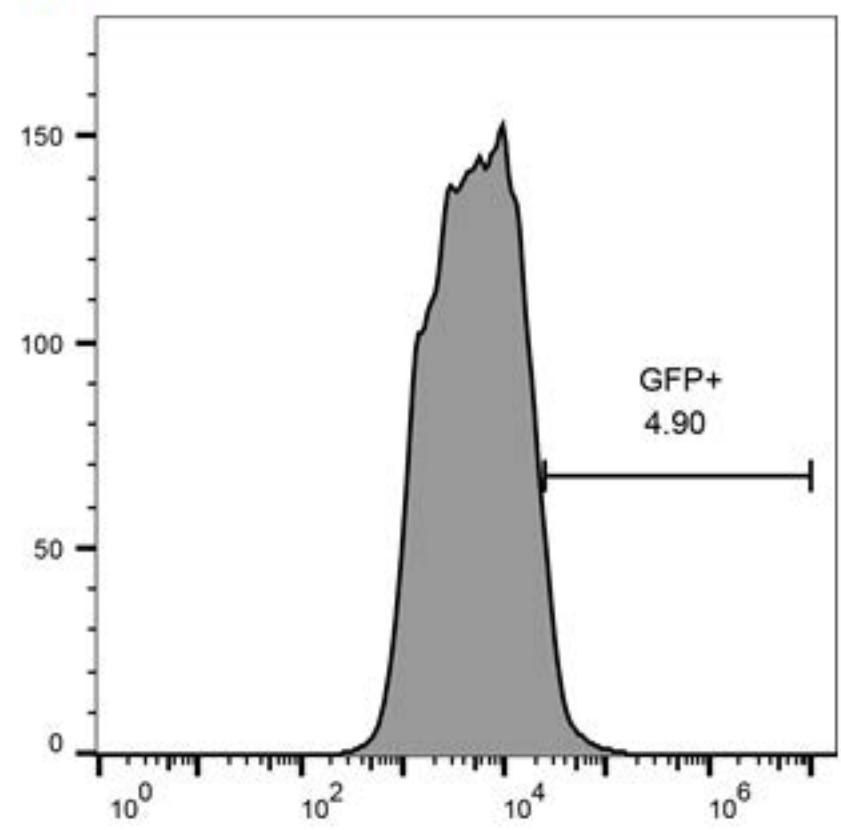
C

Count

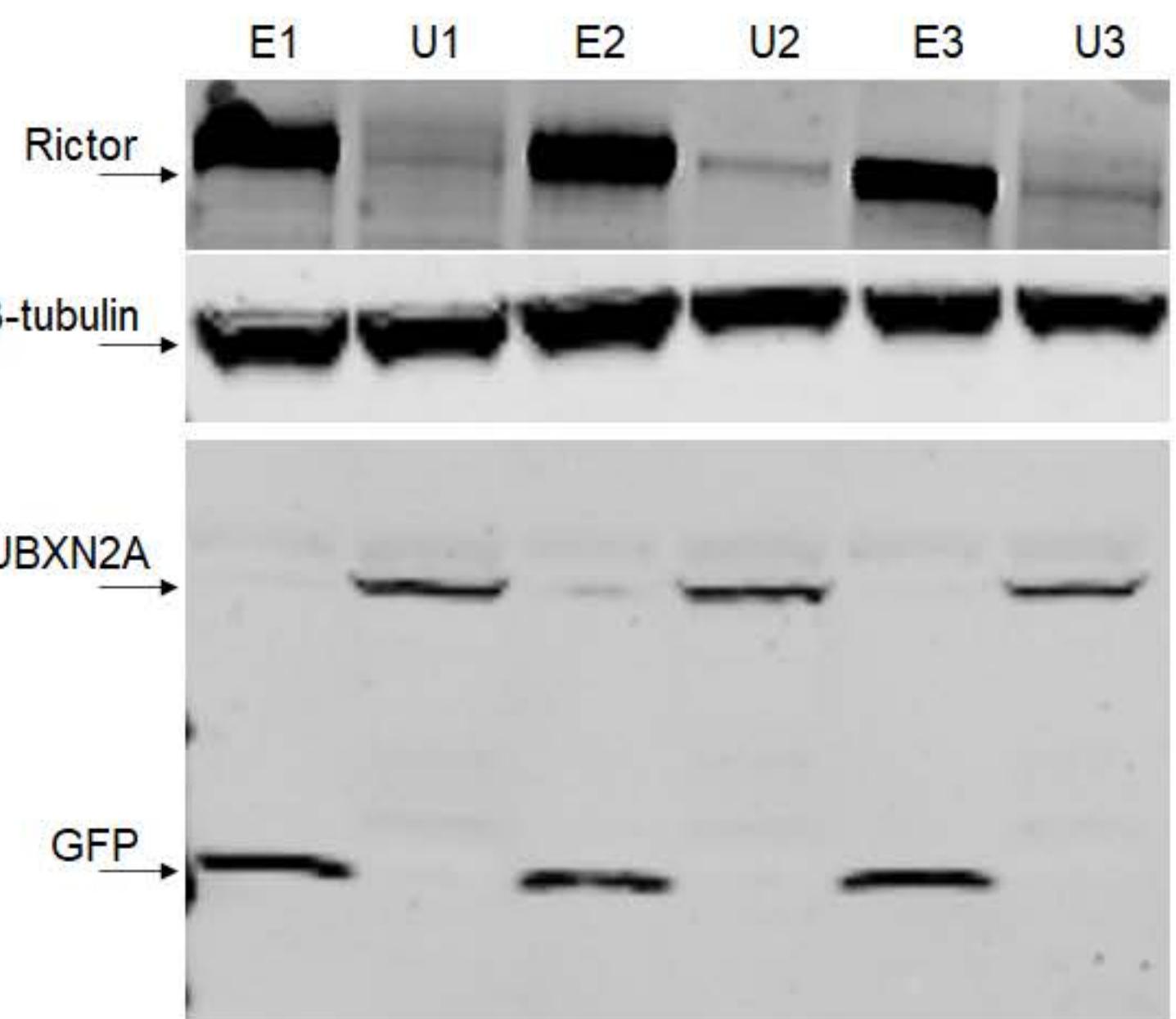
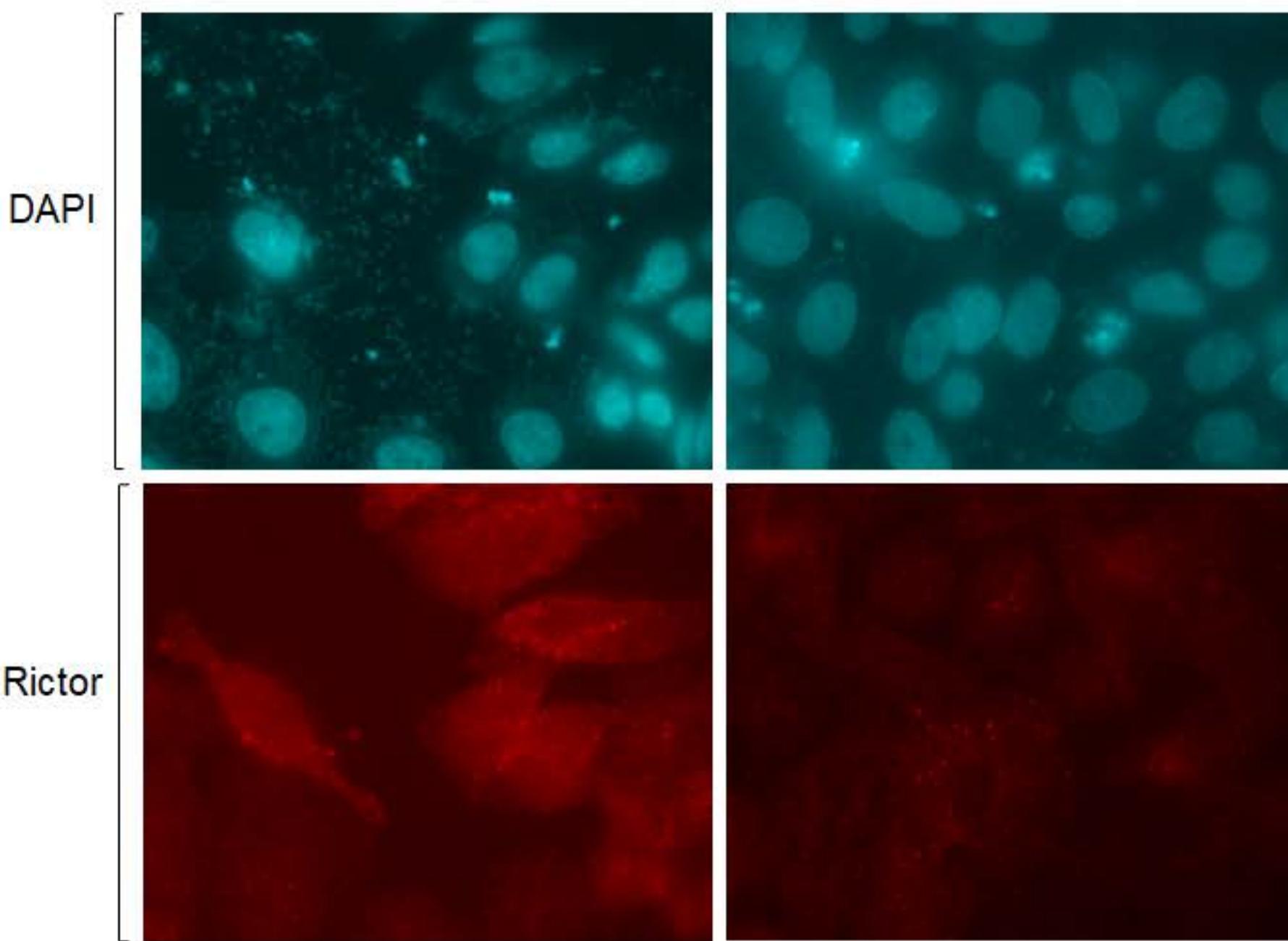
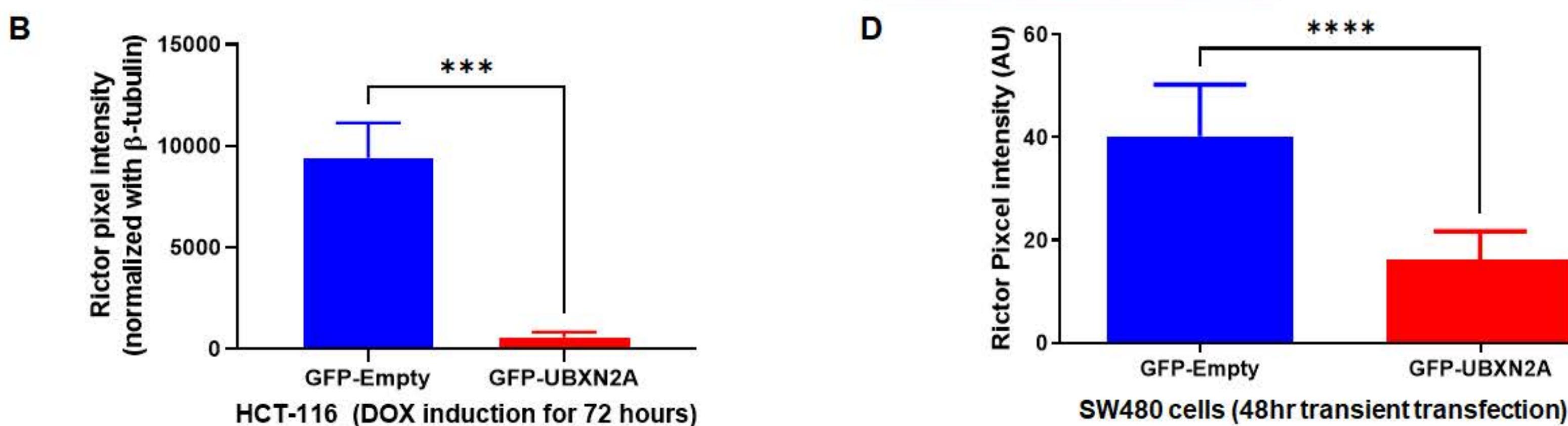
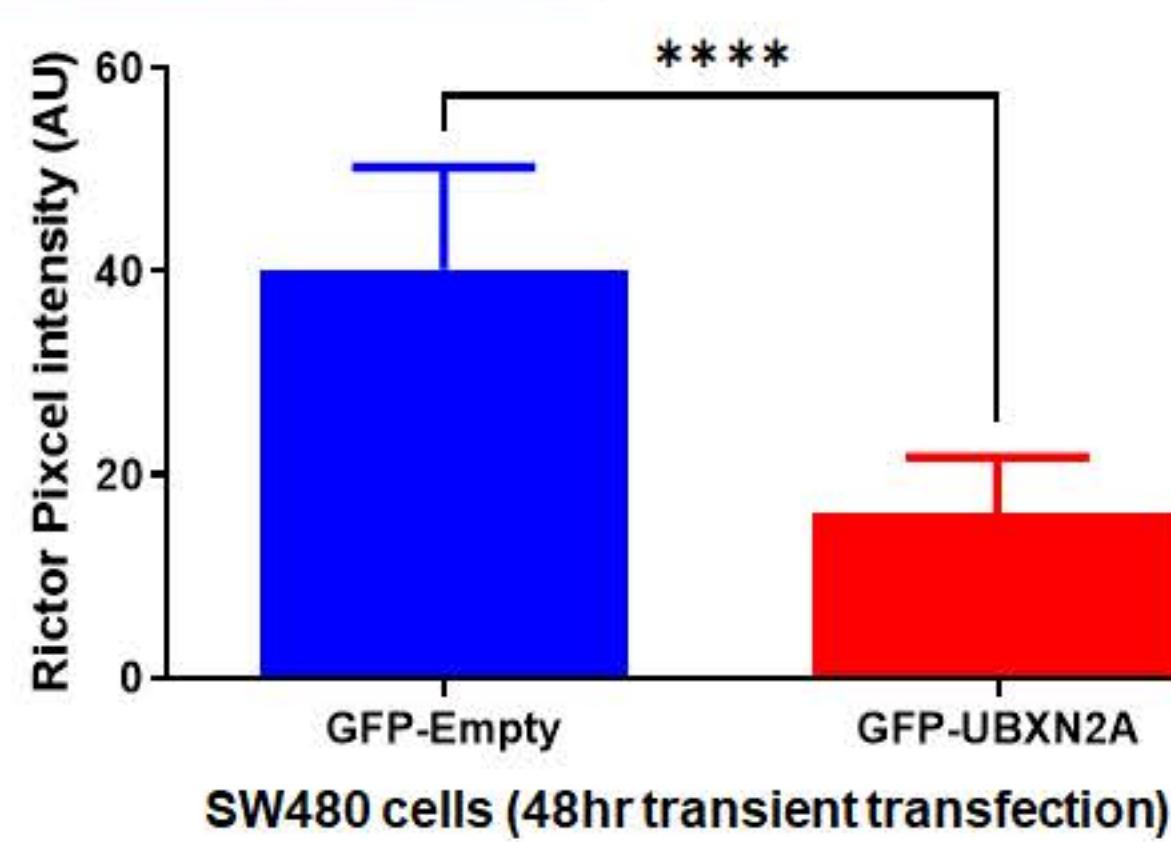
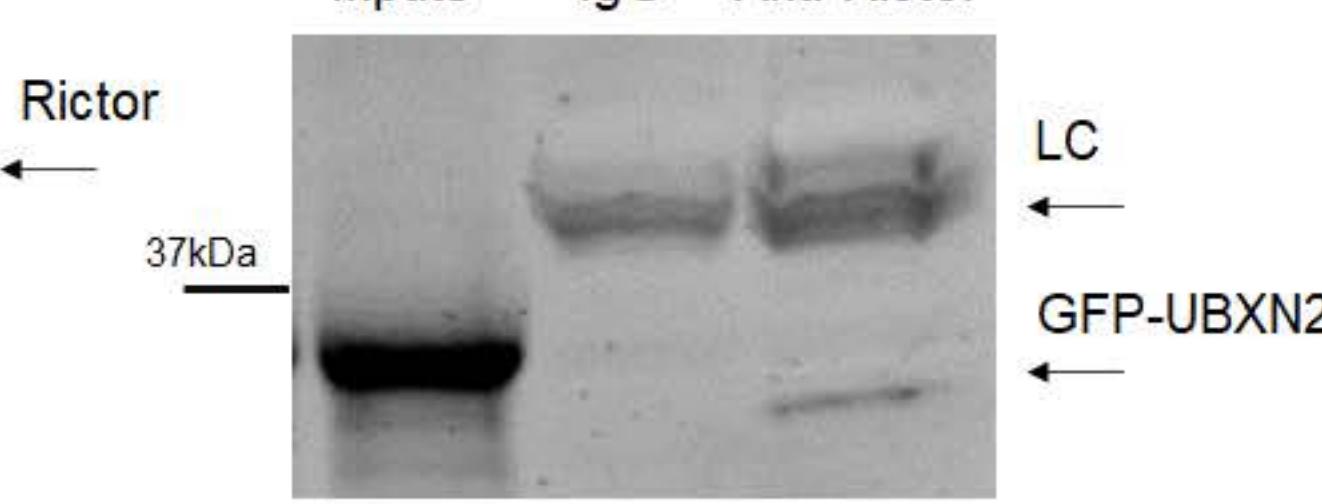


GFP-UBXN2A
Plus Dox

D

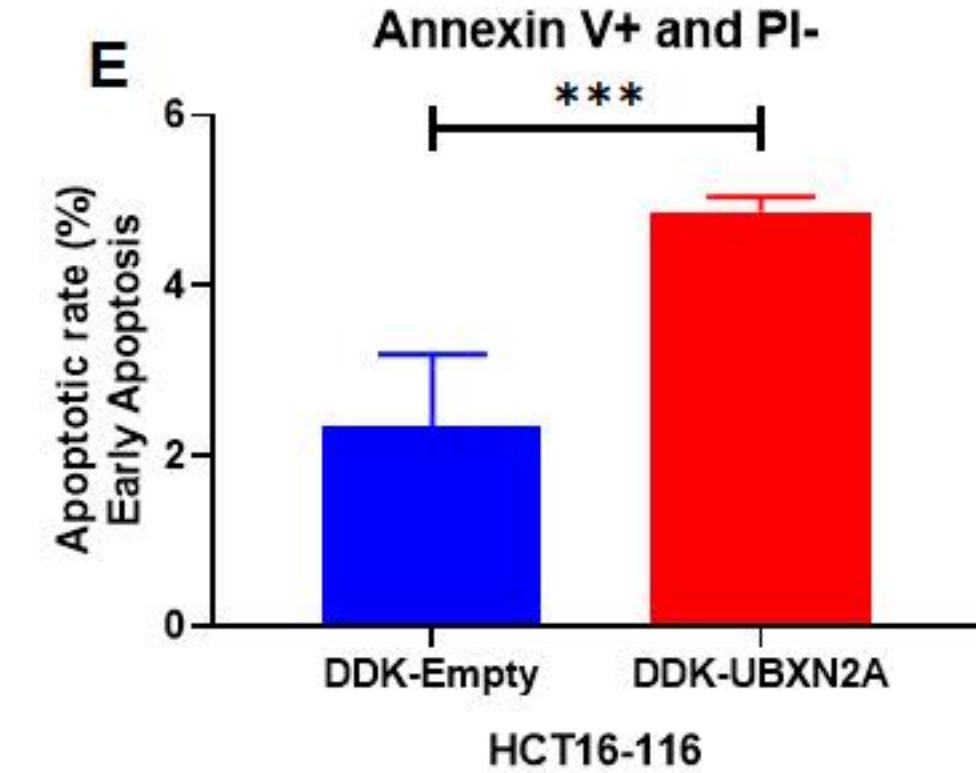
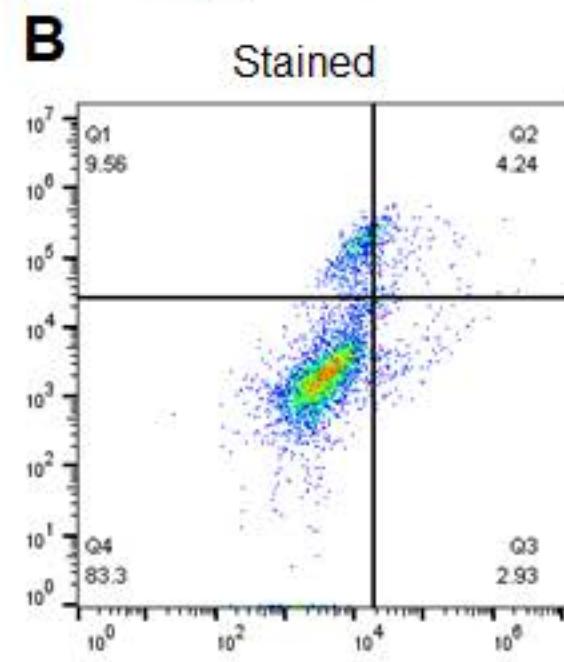
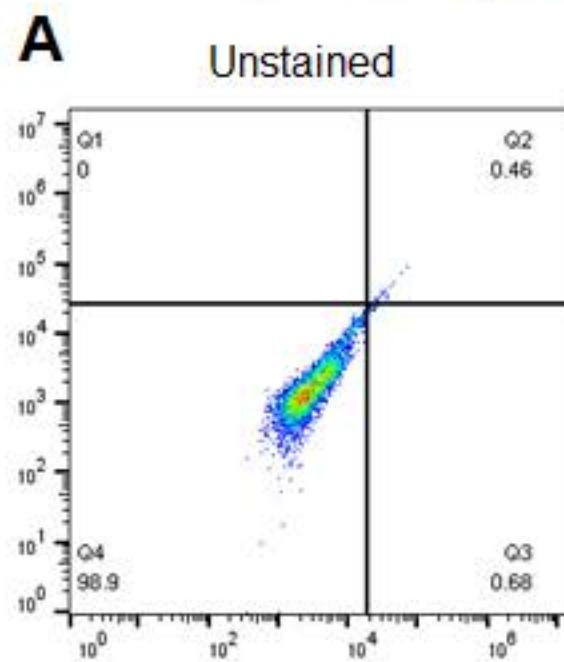


FL1-A :: GFP

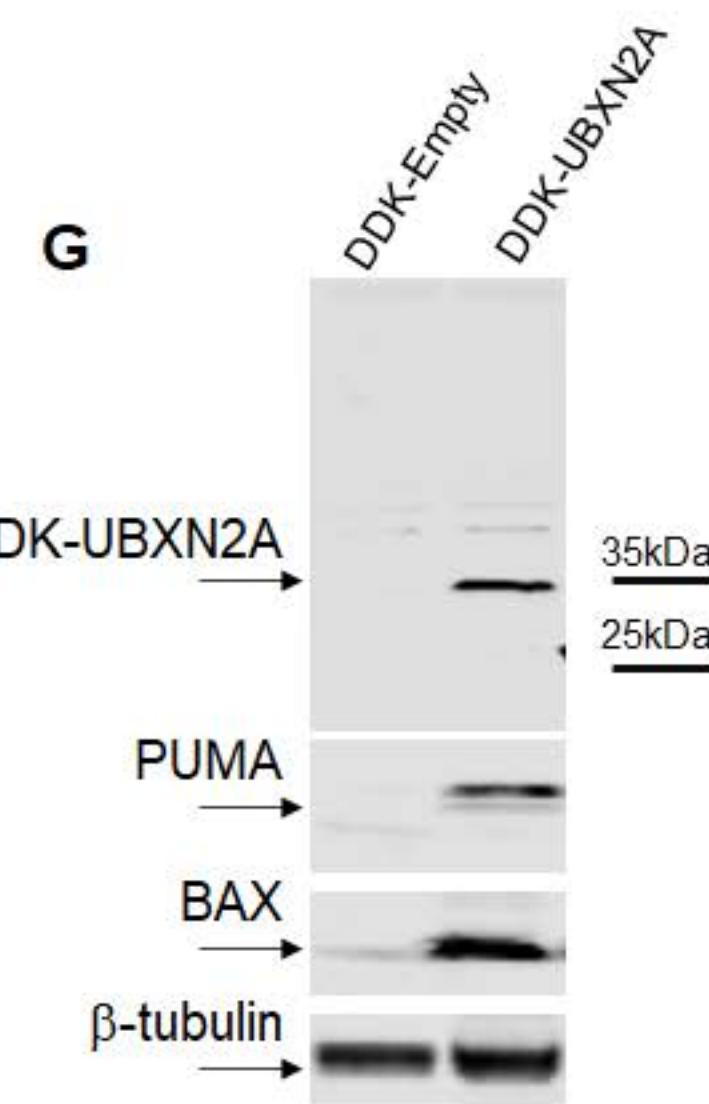
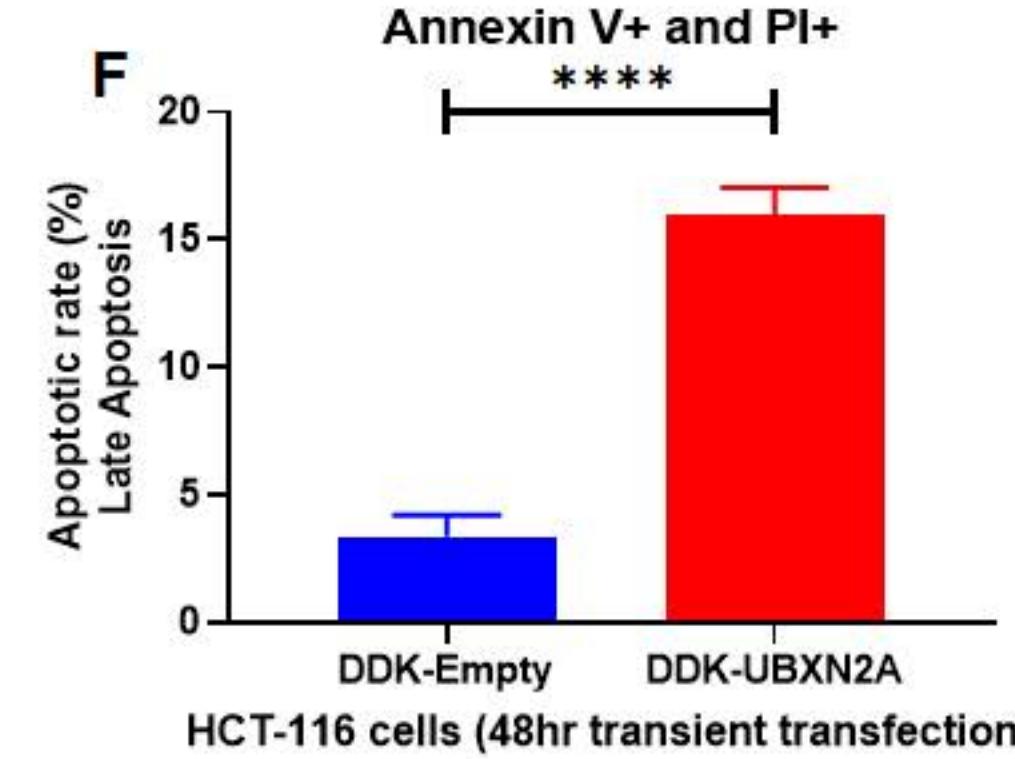
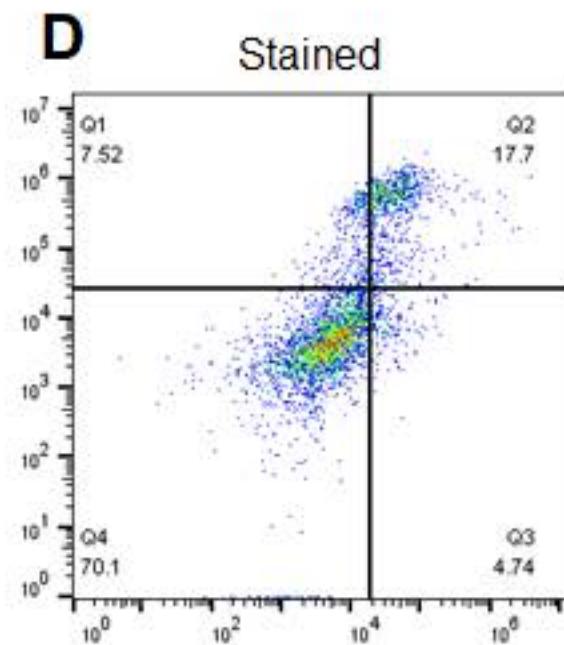
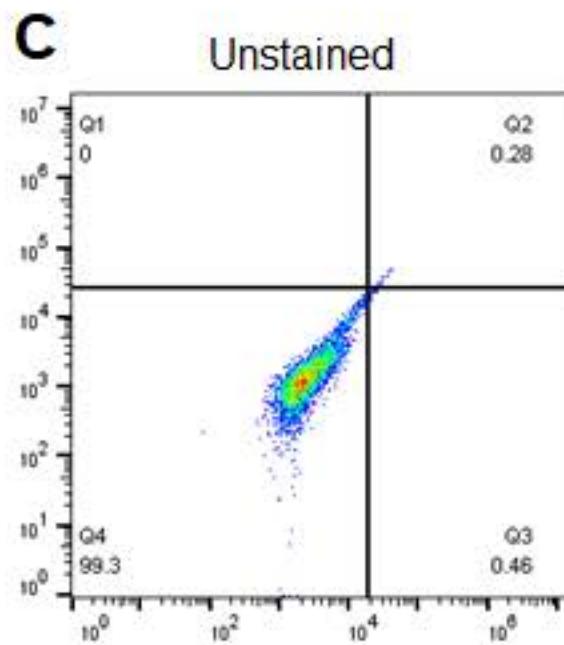
A HCT-116-DOX induced for 72 hours**C GFP-Empty****GFP-UBXN2A****E** Inputs IgG Anti-Rictor**F** Inputs IgG Anti-Rictor

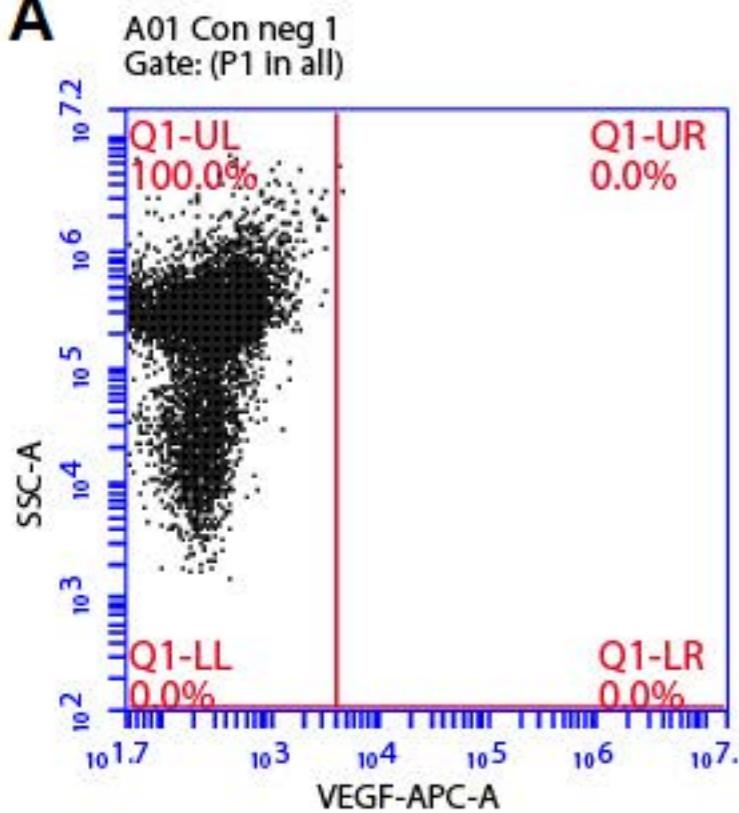
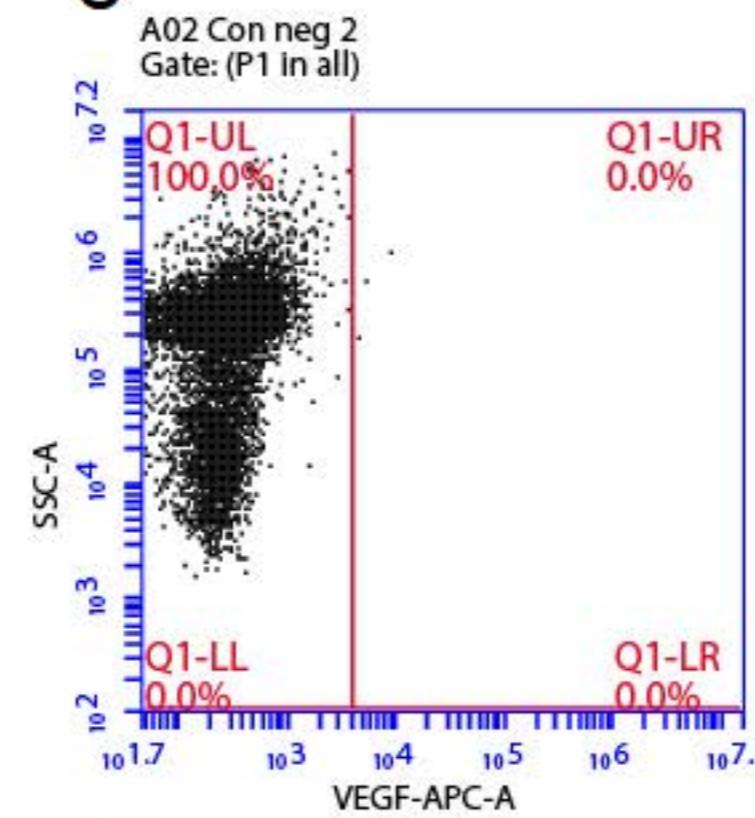
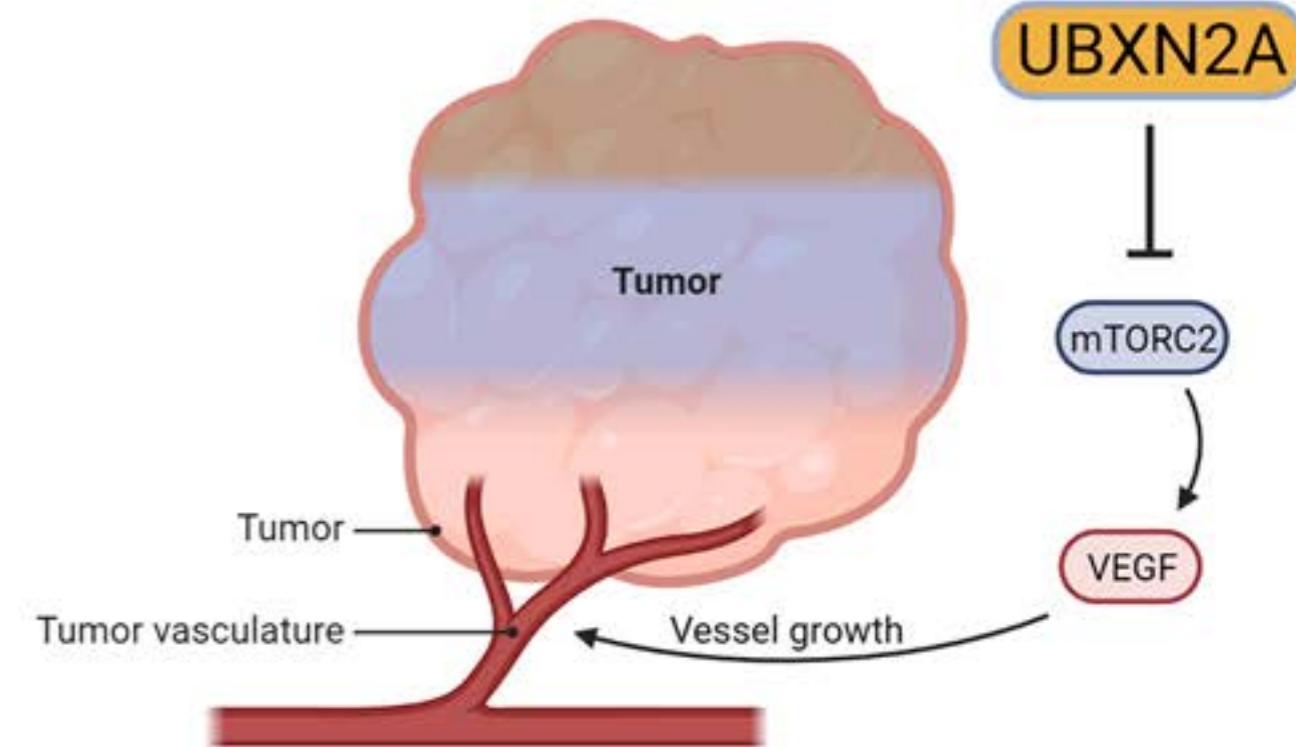
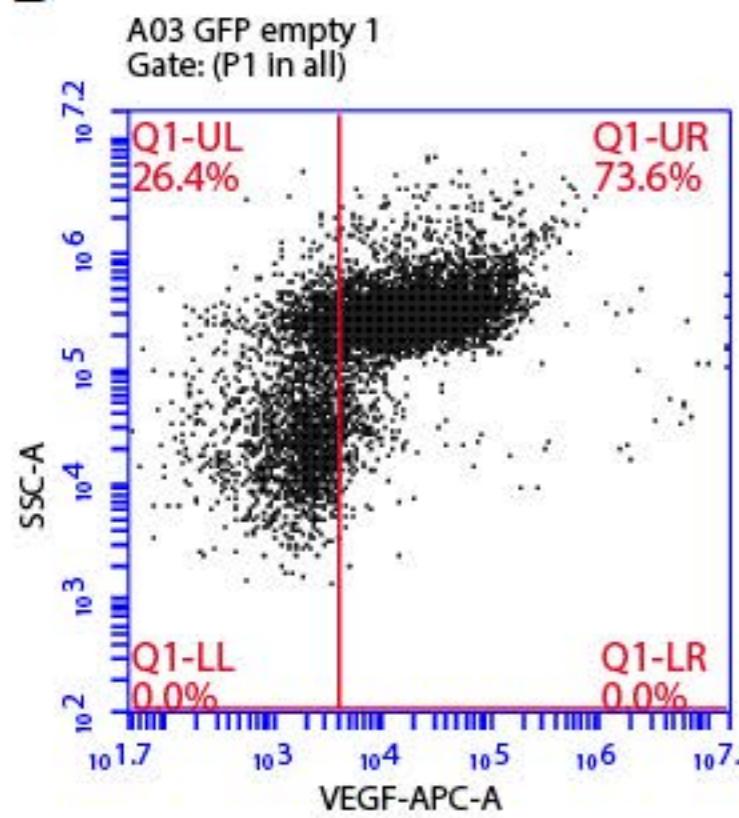
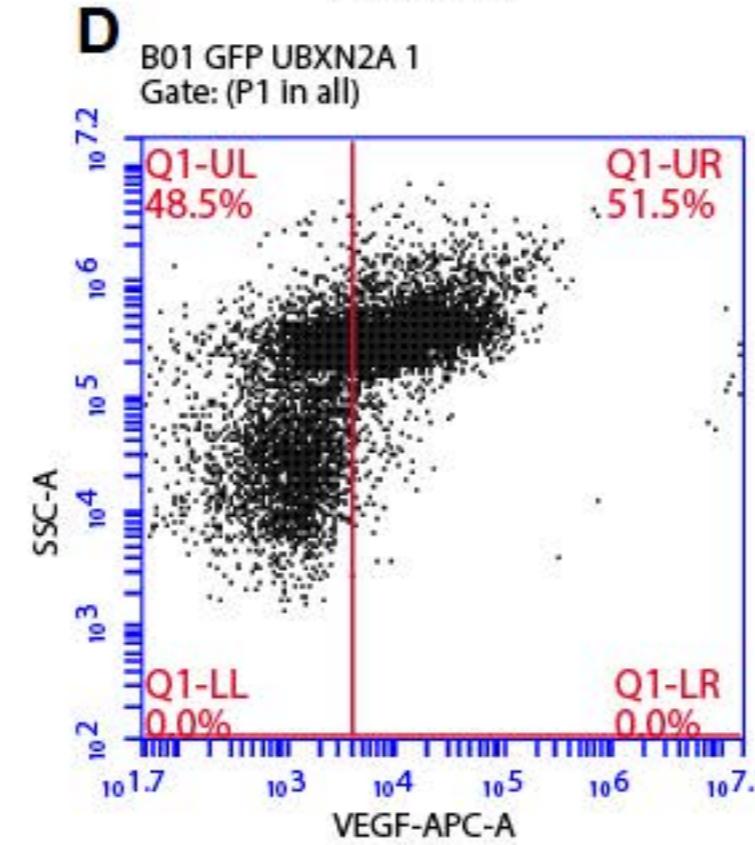
IP: Anti-Rictor polyclonal (Proteintech)
 IB: Anti-Rictor Monoclonal (Sigma)-Panel E
 IB: Anti-UBXN2A polyclonal-panel F
 LC: Light chain

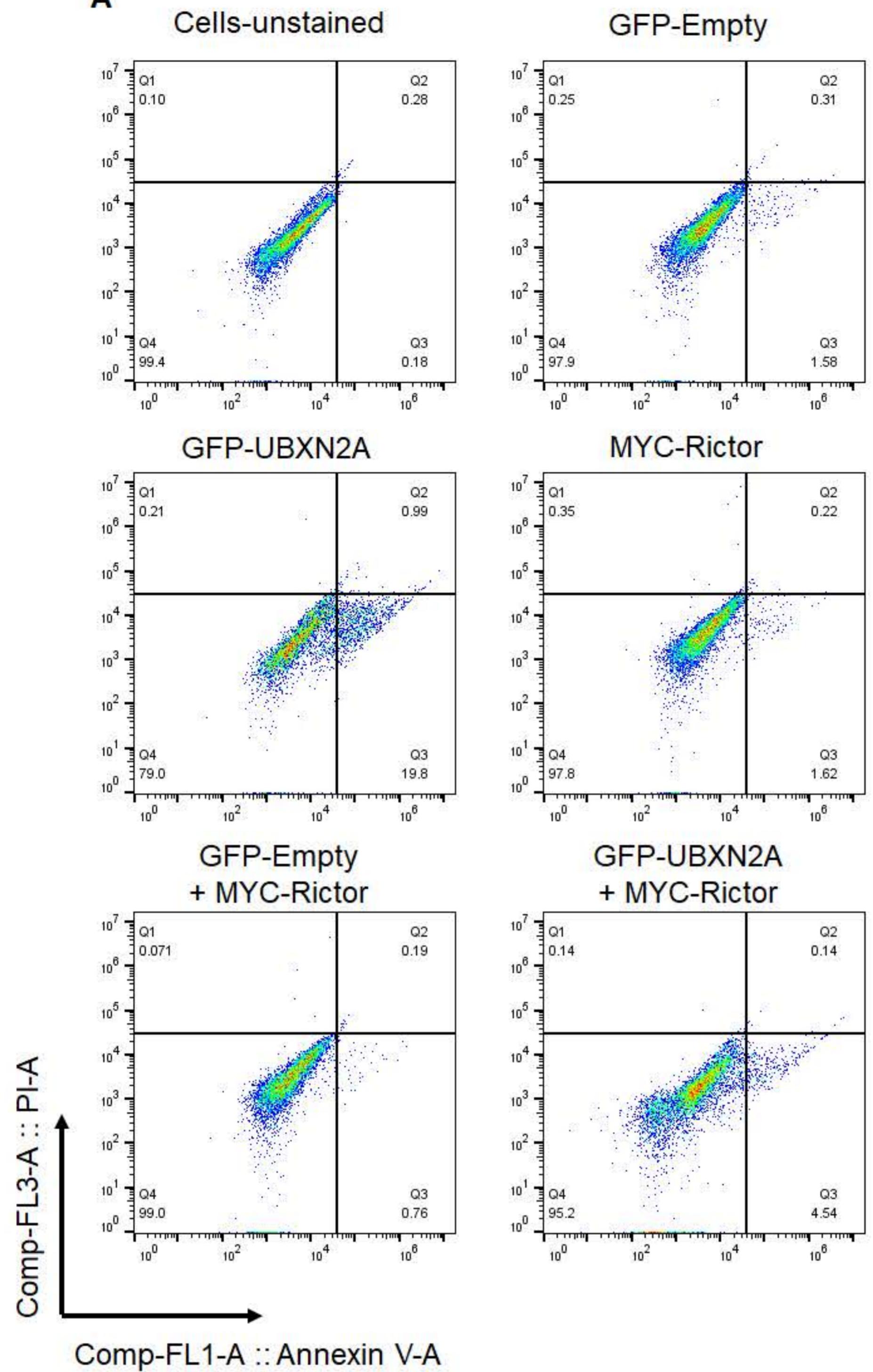
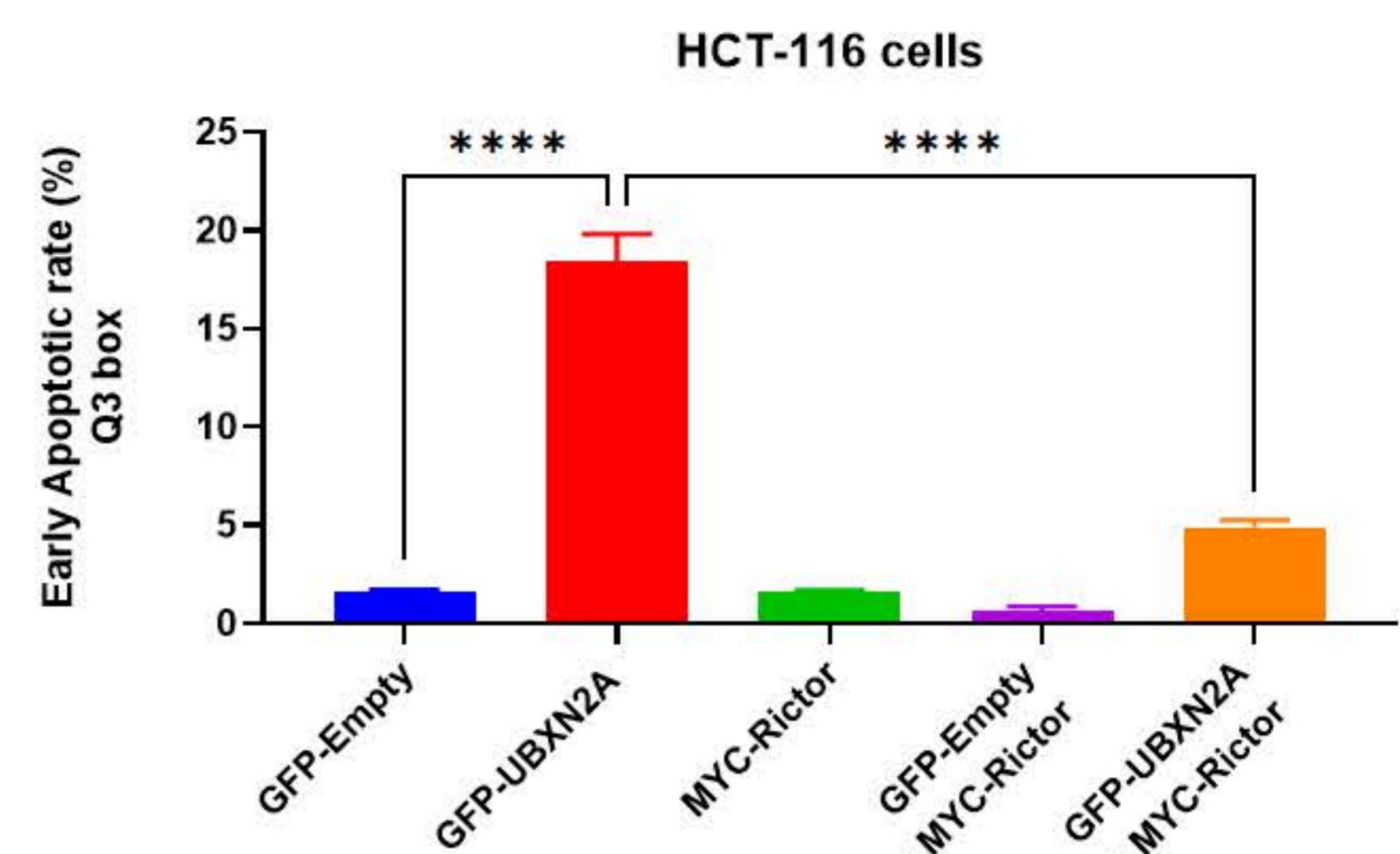
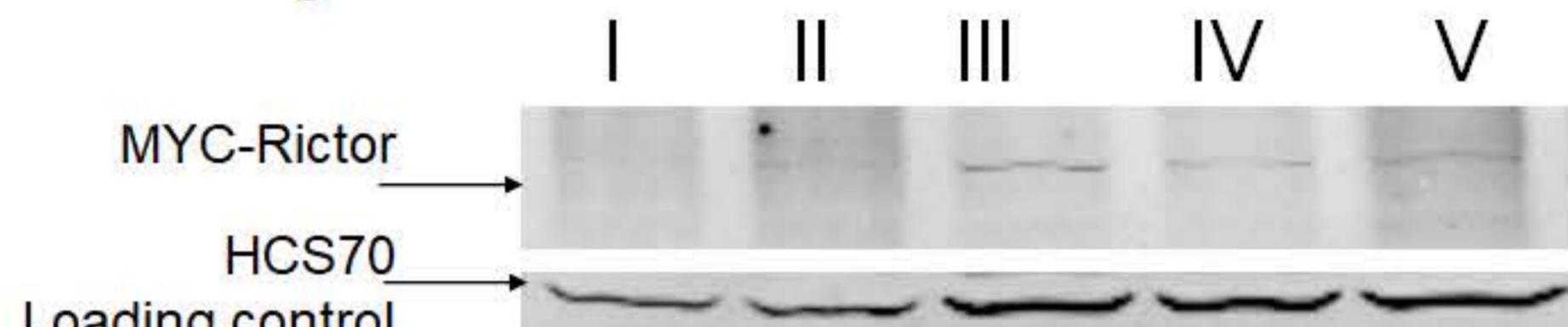
HCT-116 expressing DDK-Empty vector



HCT-116 expressing DDK-UBXN2A vector



A**C****E****B****D**

A**B****C**

I: GFP-Empty

II: GFP-UBXN2A

III: MYC-Rictor

IV: GFP-Empty + MYC-Rictor

V: GFP-UBXN2A + MYC-Rictor

D

MYC-empty GFP-Empty GFP-UBXN2A GFP-Empty + MYC-Rictor GFP-UBXN2A + MYC-Rictor

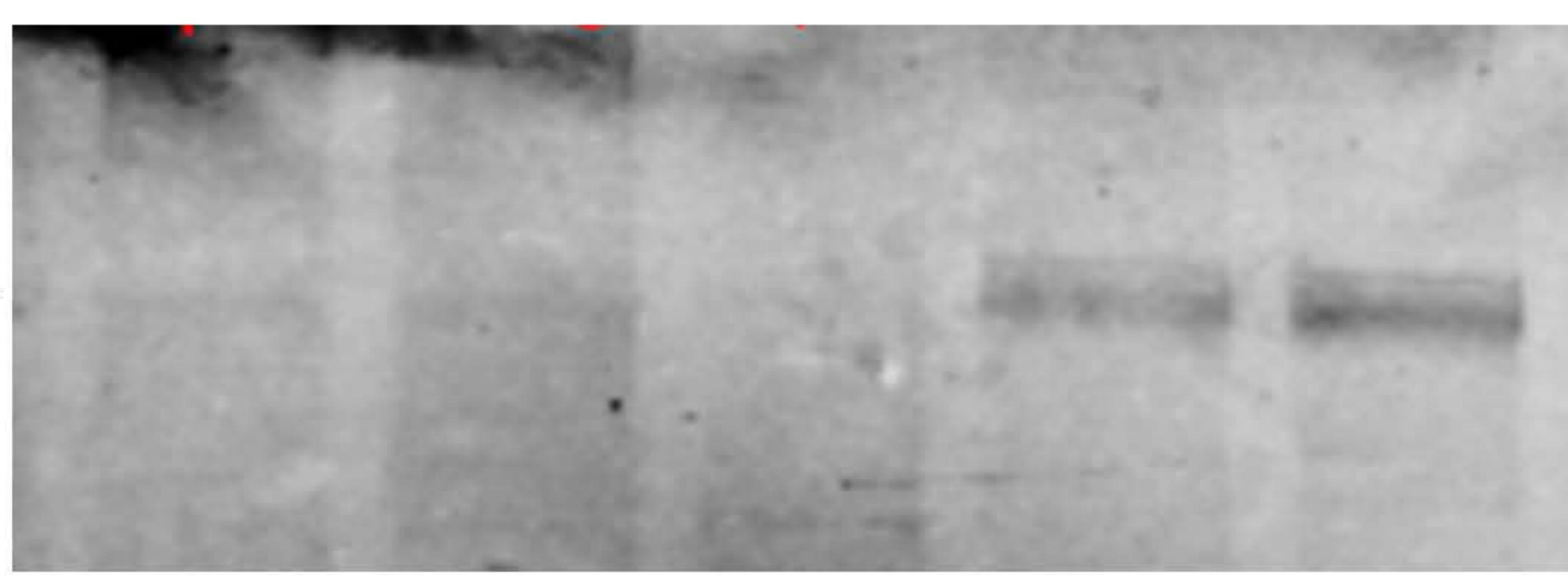
E-Cadherin →



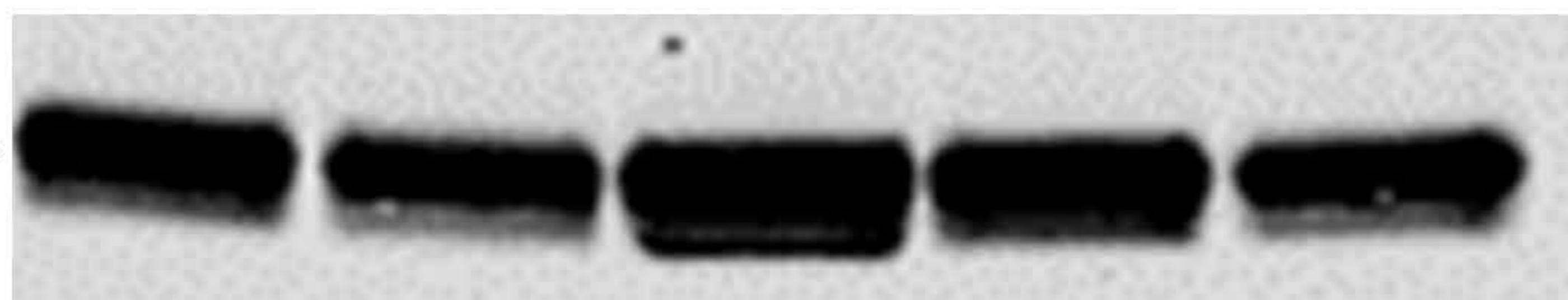
Vimentin →



MYC-Rictor →



β-Tubulin →

**E**

clone #3 clone #3 + DDK-UBXN2A clone #9 clone #9 + DDK-UBXN2A

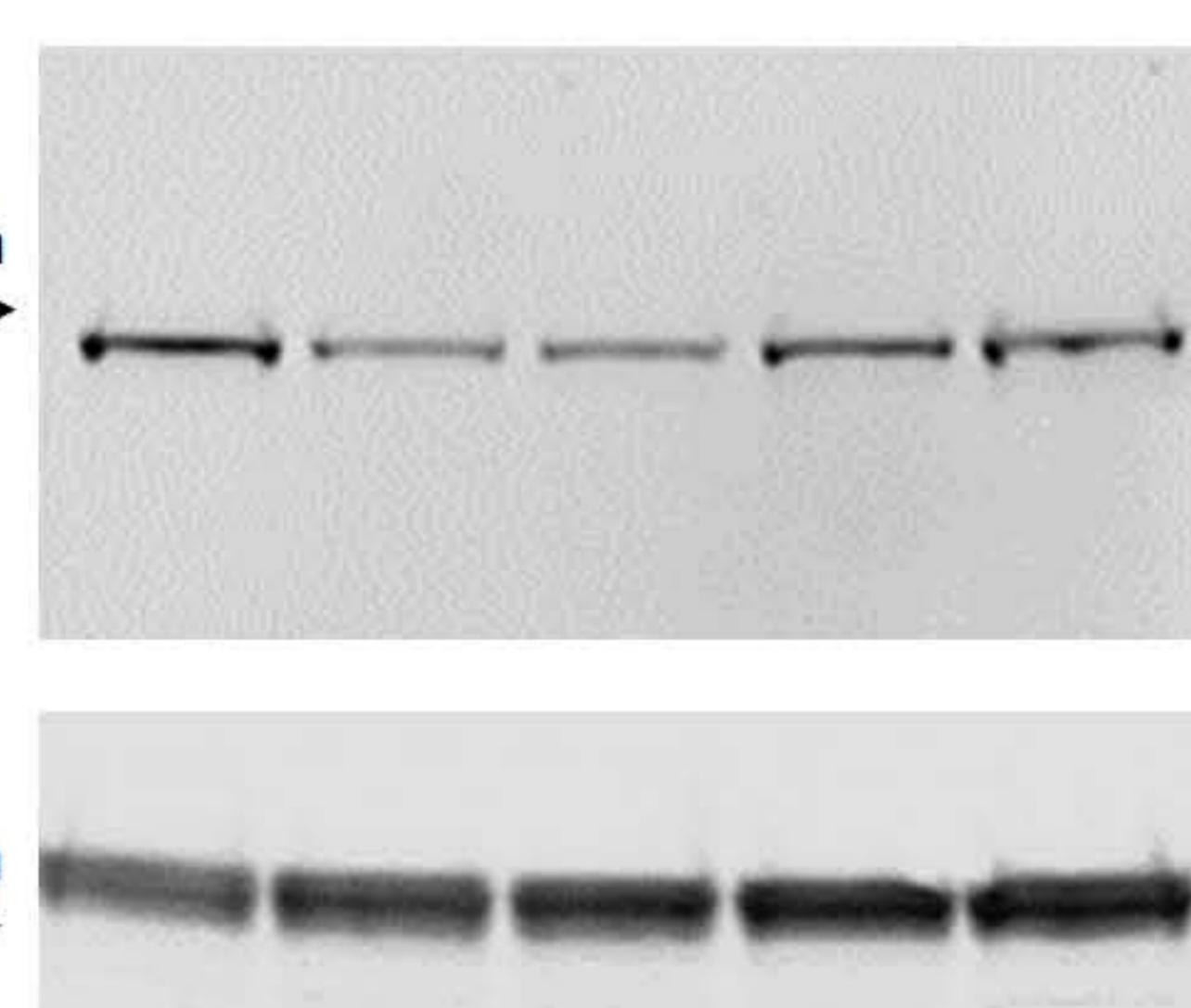
DDK-UBXN2A →

β-Tubulin →

**F**

E-Cadherin →

β-Tubulin →



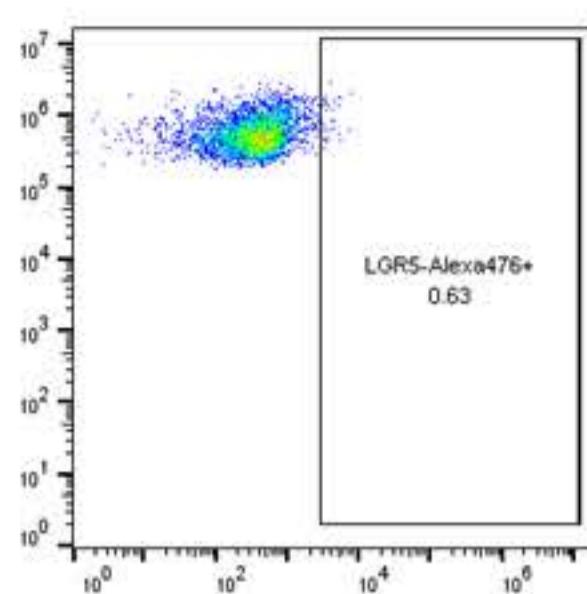
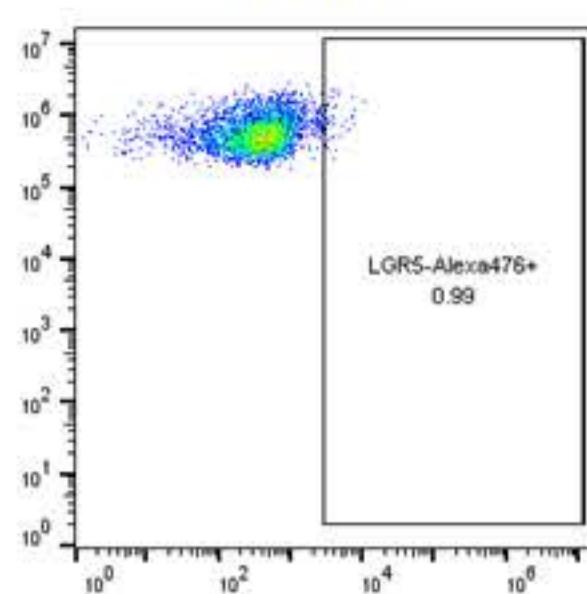
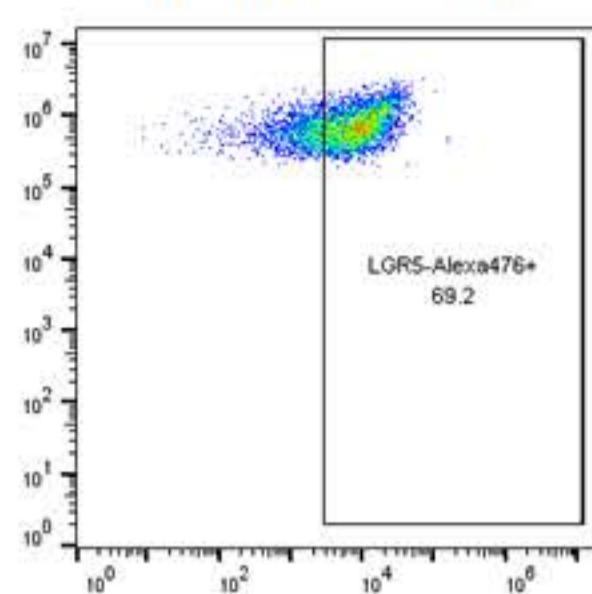
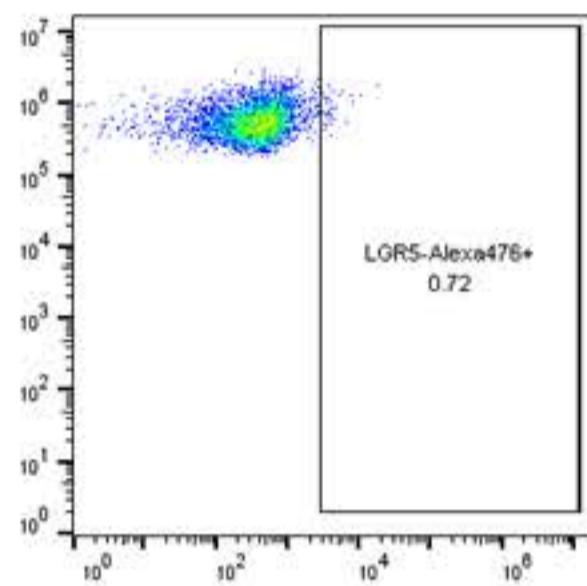
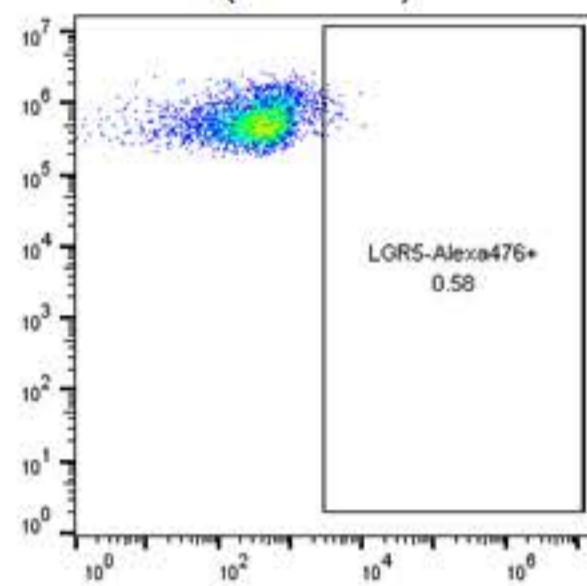
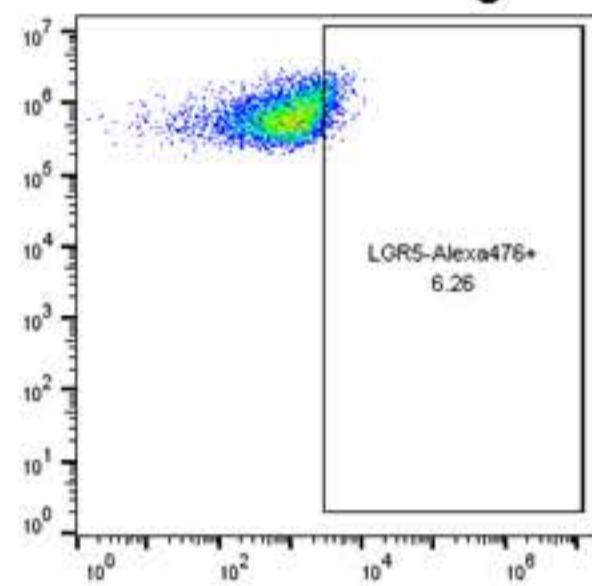
I: WT cells

II: Clone #3 UBXN2A KO

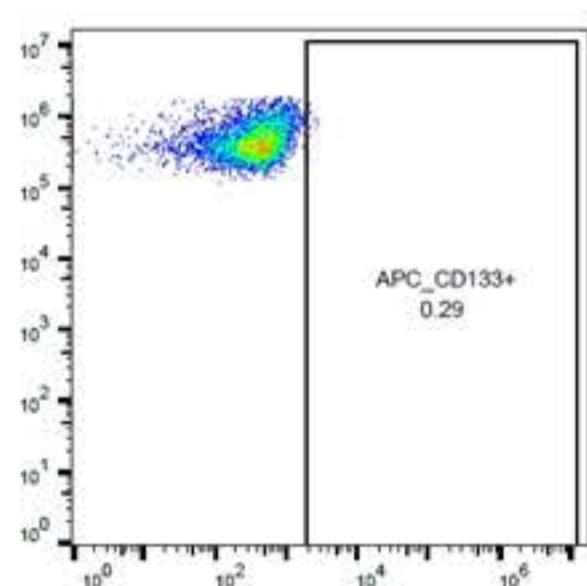
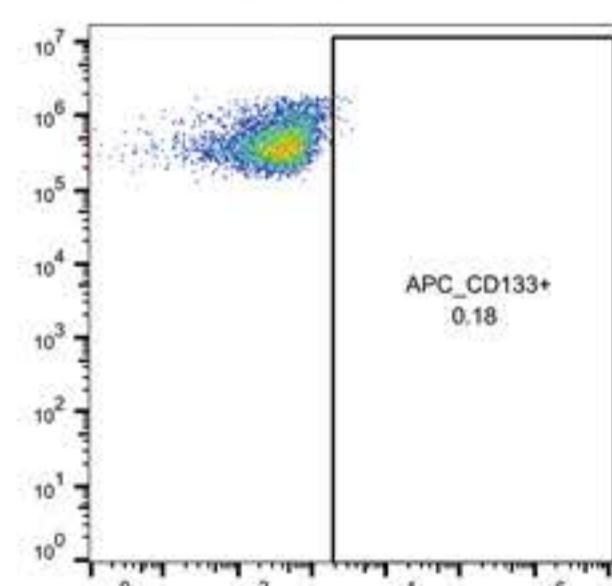
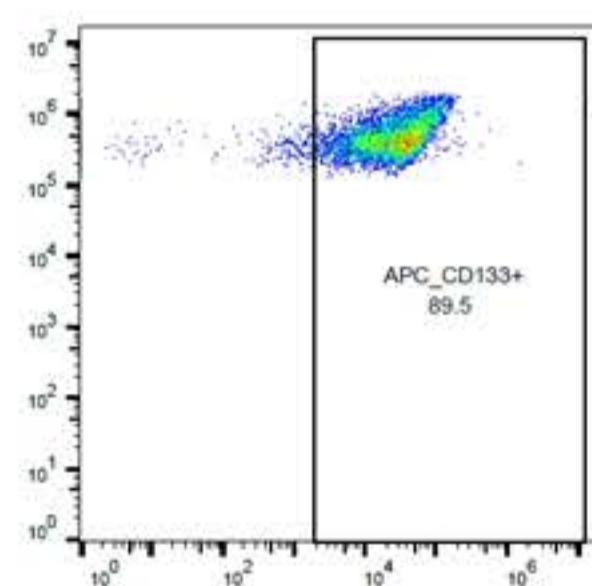
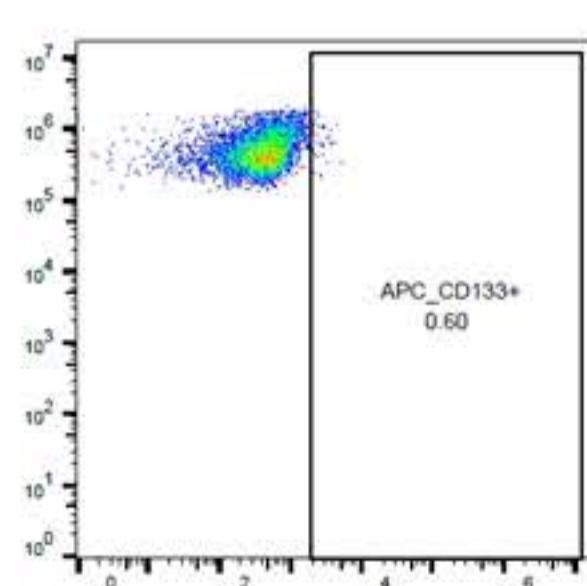
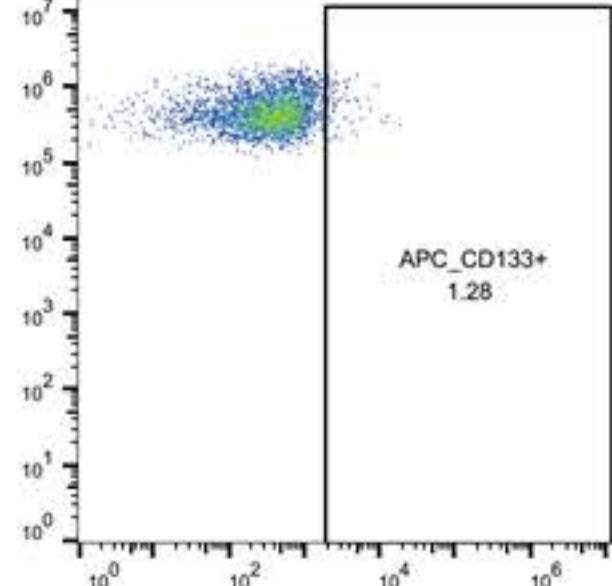
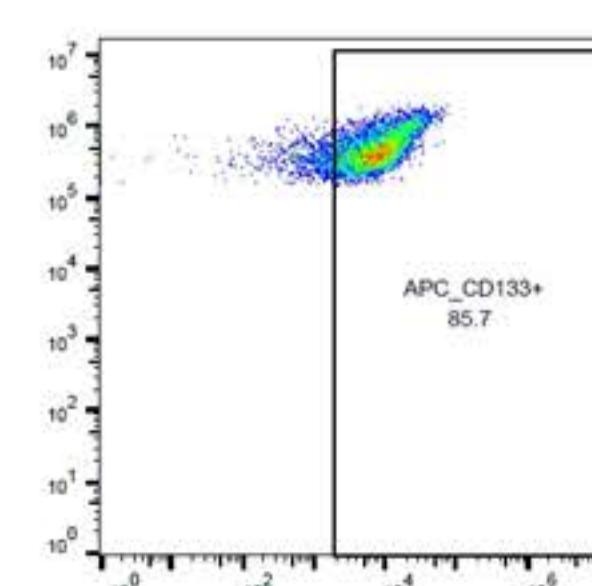
III: Clone #9 UBXN2A KO

IV: Clone #3 UBXN2A KO plus DDK-UBXN2A

V: Clone #9 UBXN2A KO plus DDK-UBXN2A

ADDK-Empty-unstained
(Control)**B**DDK-Empty
Alexa fluor 647 Rat IgG2b, κ Isotype
(Control)**C**DDK-Empty
Alexa Fluor 647
Rat Anti-Human Lgr5**D**DDK-UBXN2A-unstained
(Control)**E**DDK-UBXN2A
Alexa fluor 647 Rat IgG2b, κ Isotype
(Control)**F**DDK-UBXN2A
Alexa Fluor 647
Rat Anti-Human Lgr5

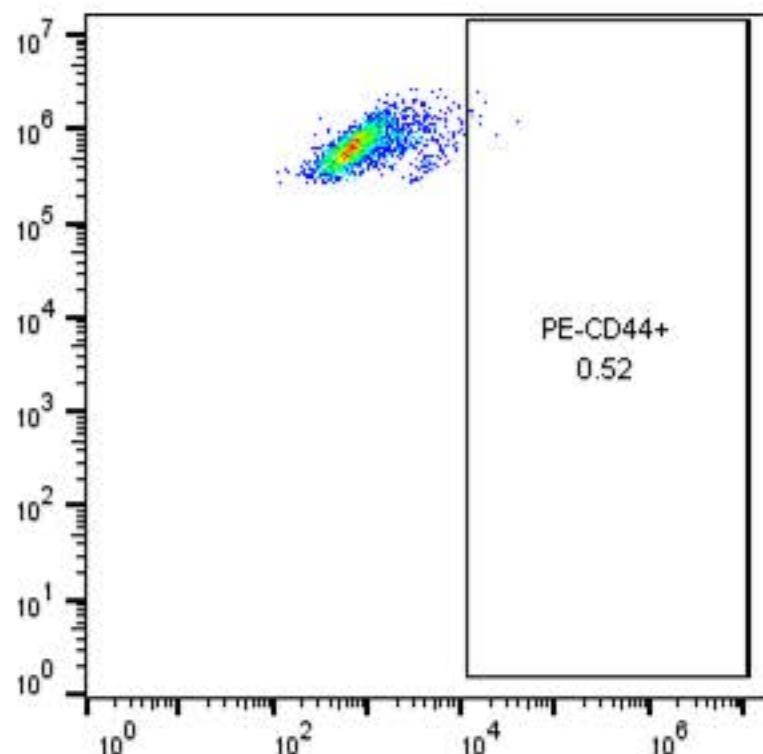
Como-FL4-A::LGR5-Alexa476-A

GDDK-Empty-unstained
(Control)**H**DDK-Empty
APC Mouse IgG1 κ Isotype
(Control)**I**DDK-Empty
APC Mouse Anti-Human CD133
Clone W6B3C1**J**DDK-UBXN2A-unstained
(Control)**K**DDK-UBXN2A
APC Mouse IgG1 κ Isotype
(Control)**L**DDK-UBXN2A
APC Mouse Anti-Human CD133
Clone W6B3C1

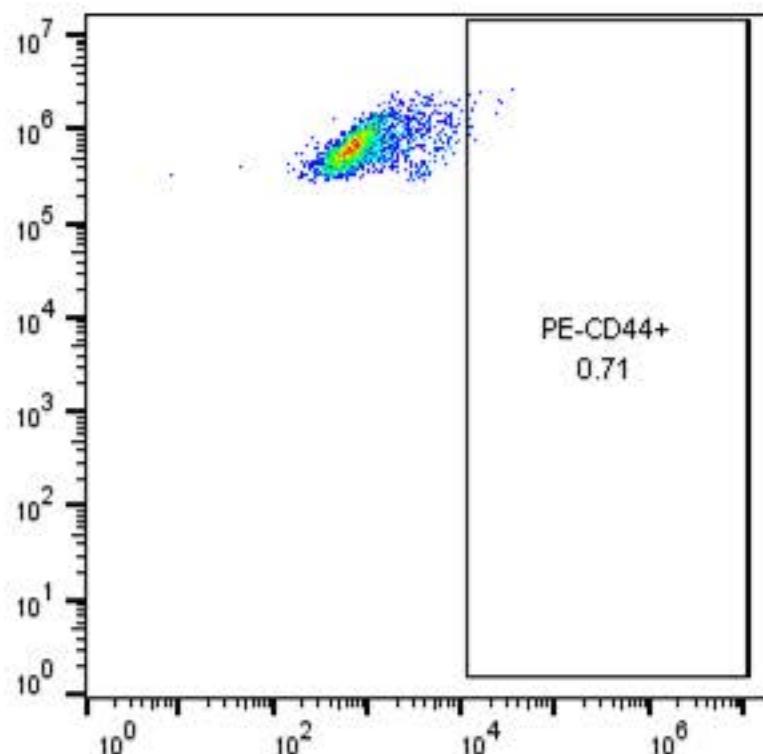
FL4-A :: CD133-APC-A

A

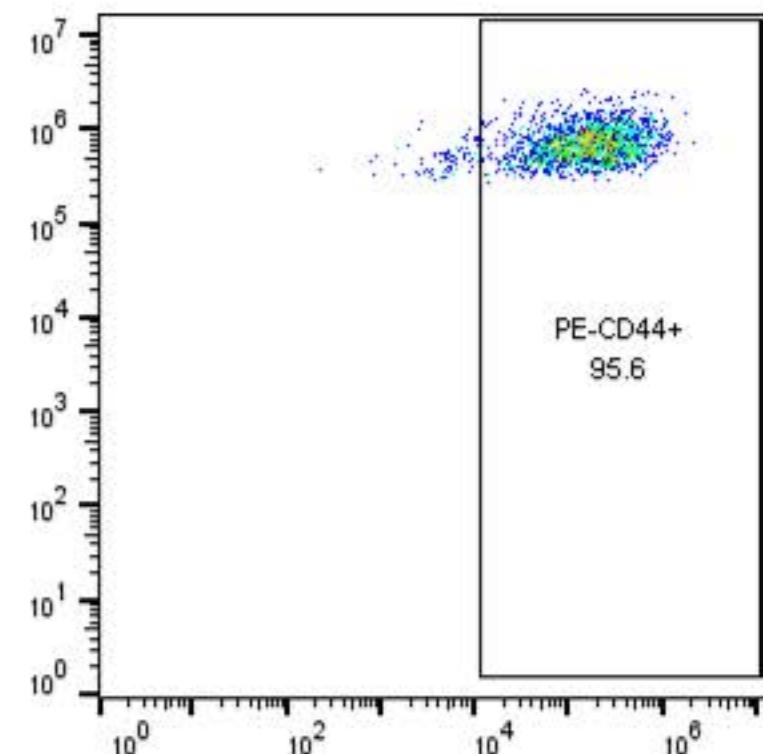
DDK-Empty-unstained
Control

**B**

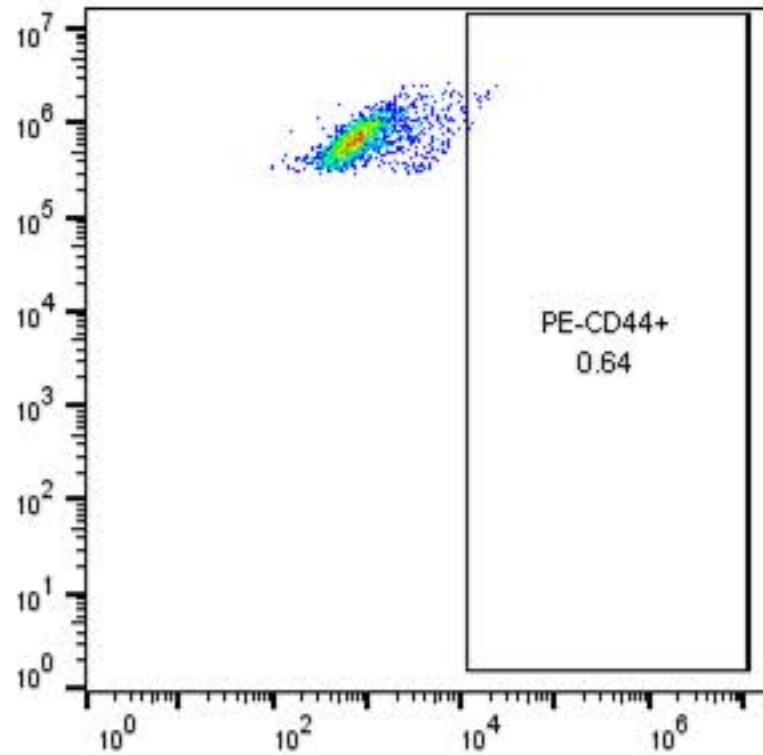
DDK-Empty
PE Mouse IgG2b κ Isotype
Control

**C**

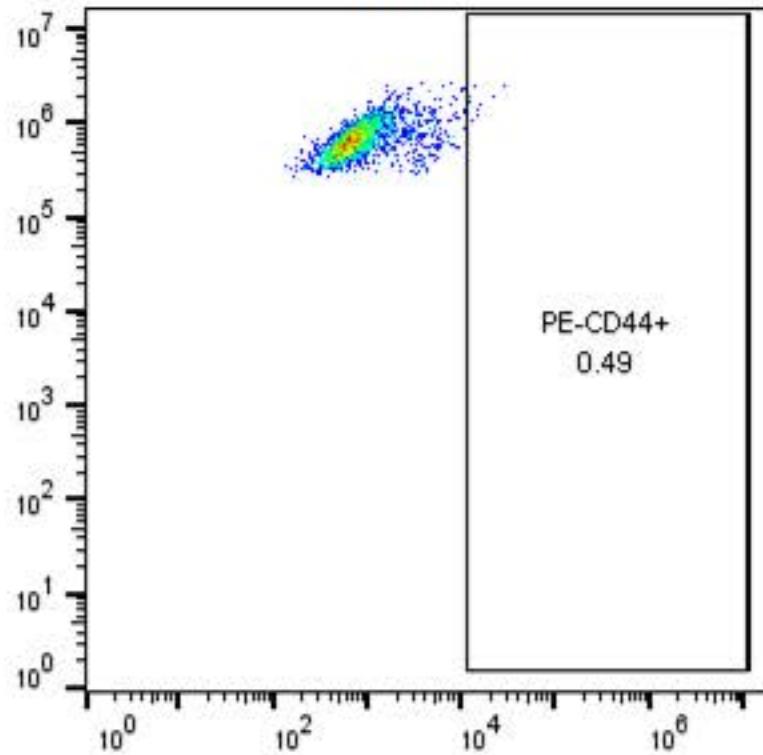
DDK-Empty
PE Mouse Anti-Human CD44
Clone G44-26

**D**

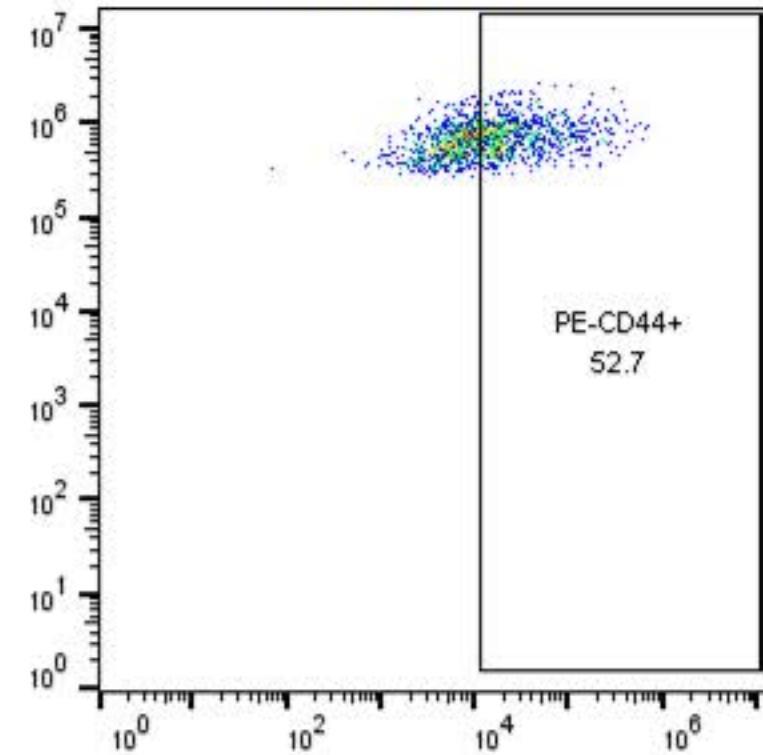
DDK-UBXN2A-unstained
Control

**E**

DDK-UBXN2A
PE Mouse IgG2b κ Isotype
Control

**F**

DDK-UBXN2A
PE Mouse Anti-Human CD44
Clone G44-26

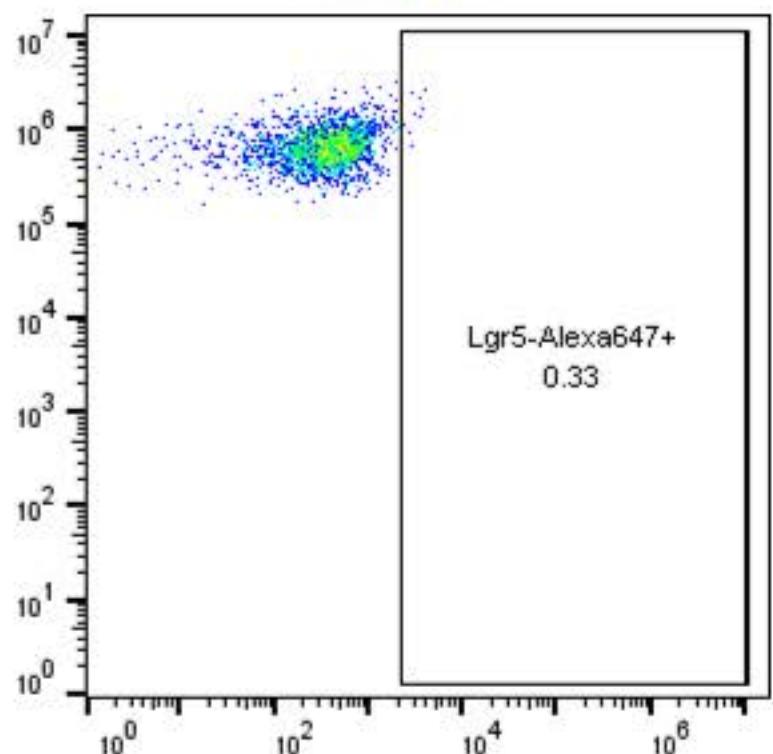


SSC-A :: SSC-A

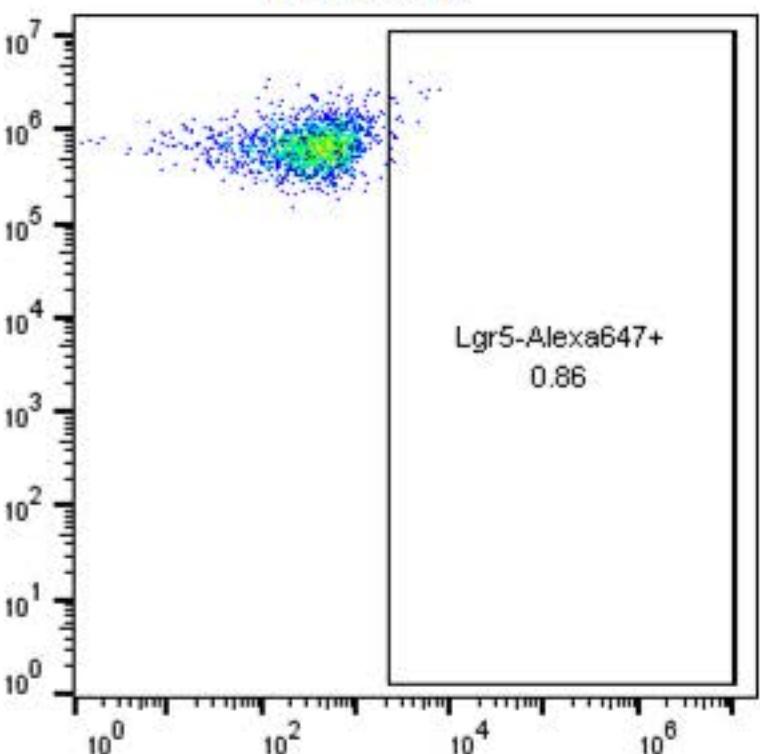
Como-FL2-A::PE-CD44-A

A

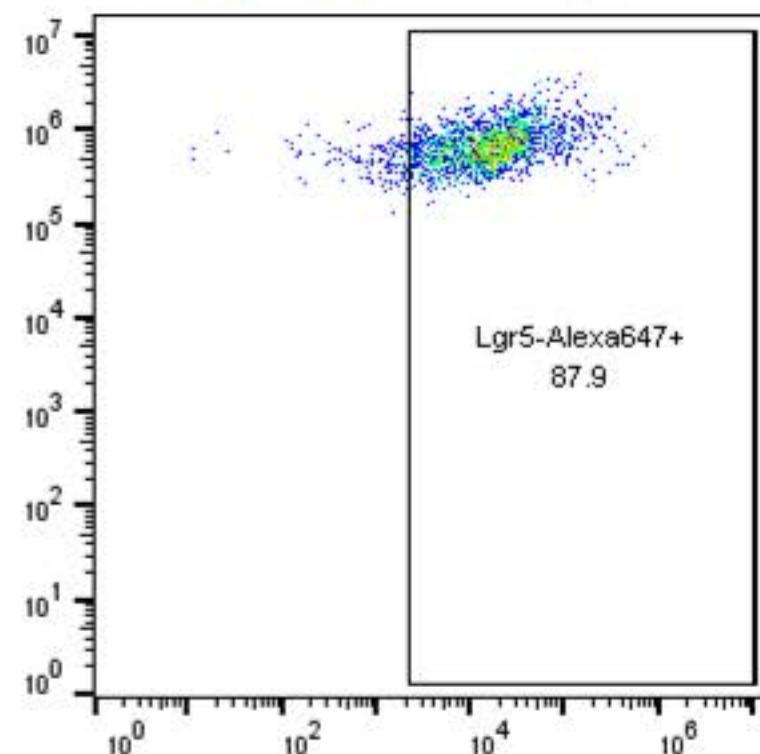
DDK-Empty-unstained
(Control)

**B**

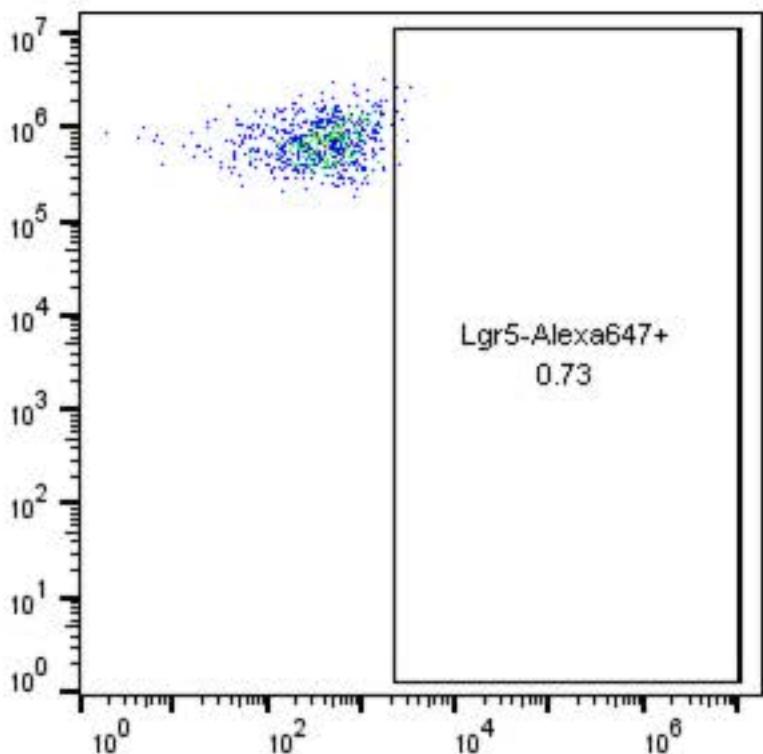
DDK-Empty
Alexa fluor 647 Rat IgG2b, κ Isotype
(Control)

**C**

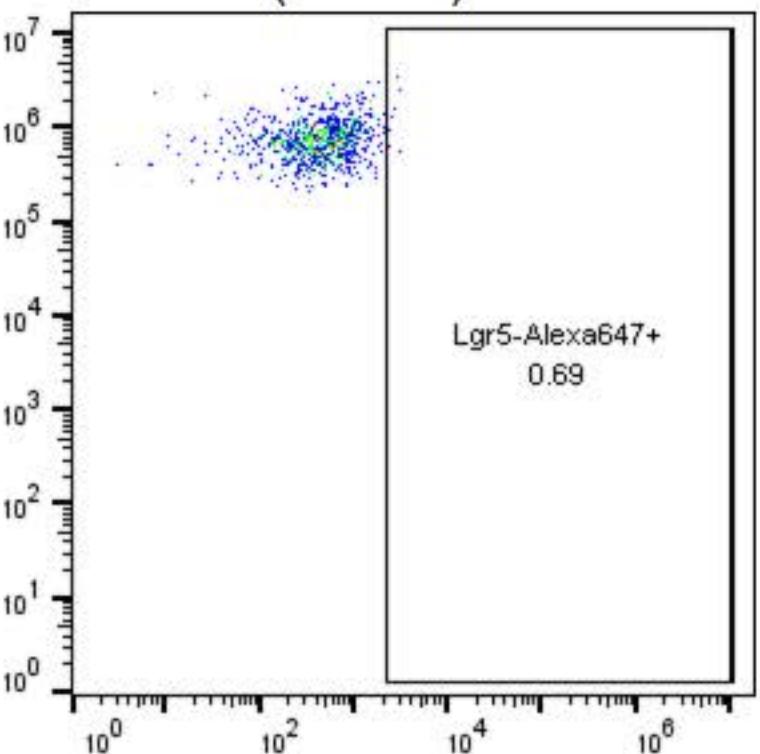
DDK-Empty
Alexa Fluor 647
Rat Anti-Human Lgr5

**D**

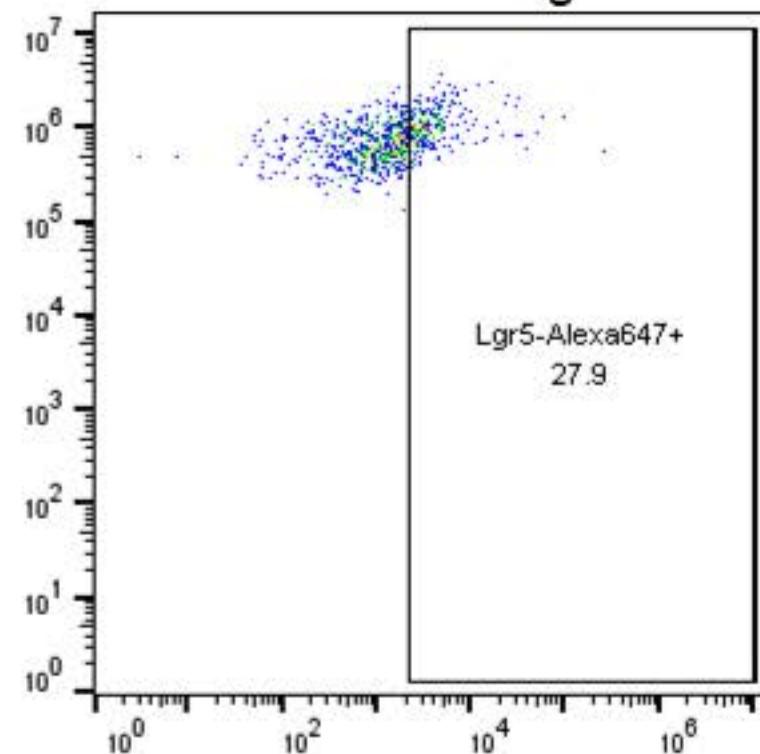
DDK-UBXN2A-unstained
(Control)

**E**

DDK-UBXN2A
Alexa fluor 647 Rat IgG2b, κ Isotype
(Control)

**F**

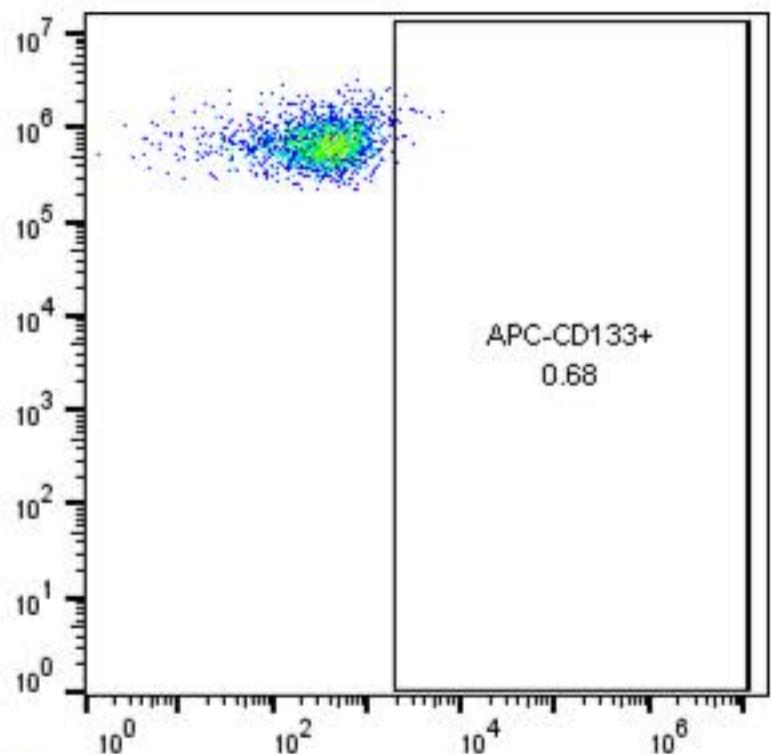
DDK-UBXN2A
Alexa Fluor 647
Rat Anti-Human Lgr5



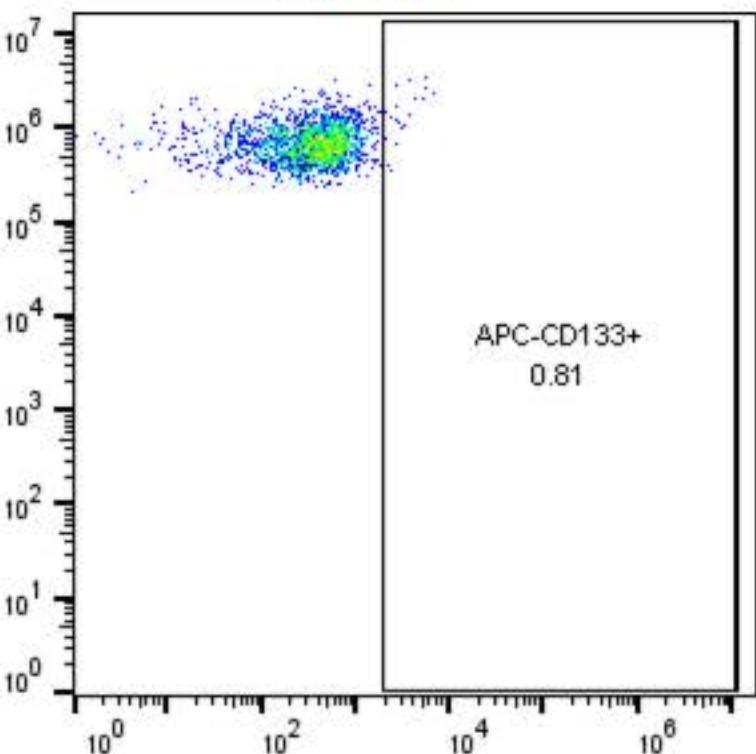
Como-FL4-A::LGR5-Alexa476-A

A

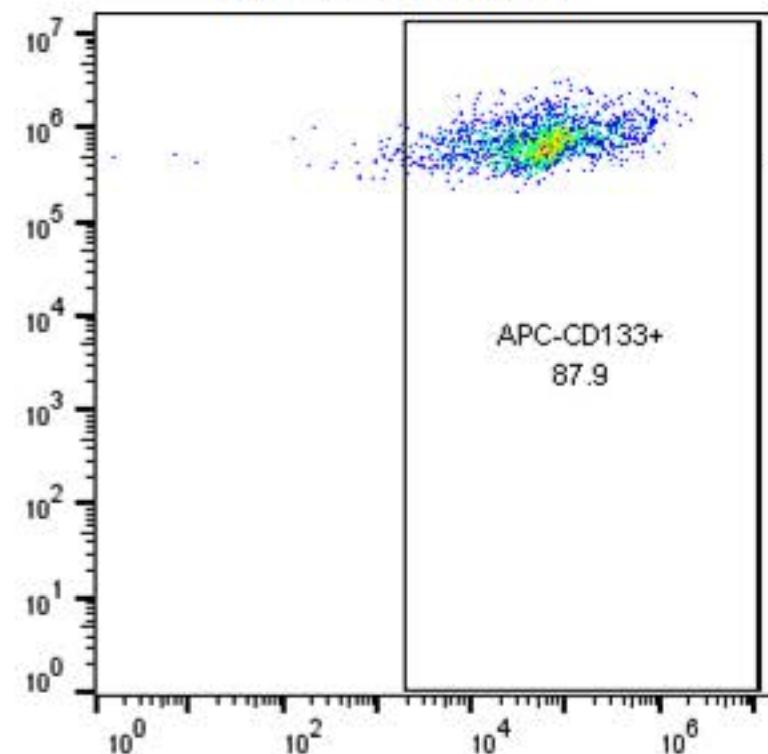
DDK-Empty-unstained
(Control)

**B**

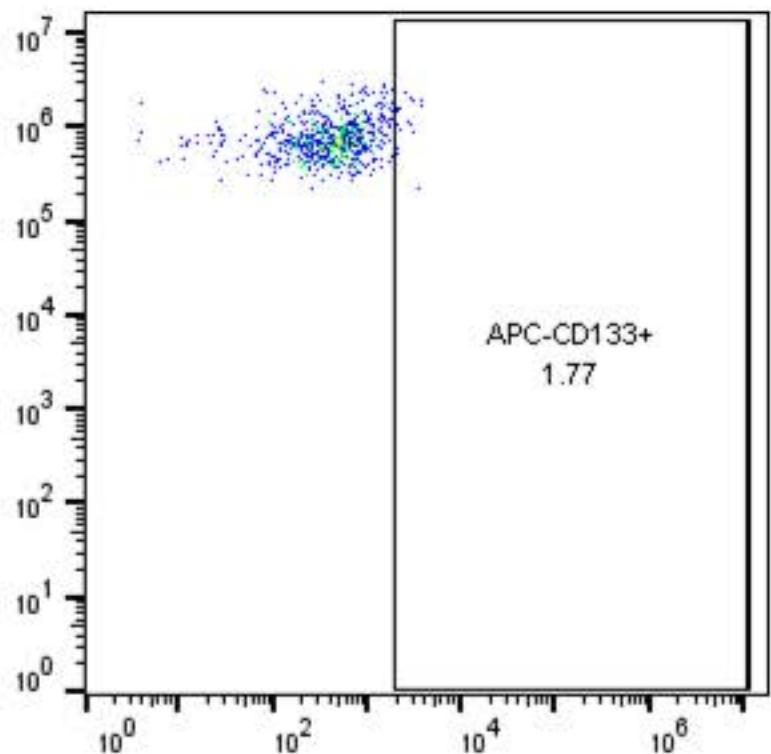
DDK-Empty
APC Mouse IgG1 κ Isotype
(Control)

**C**

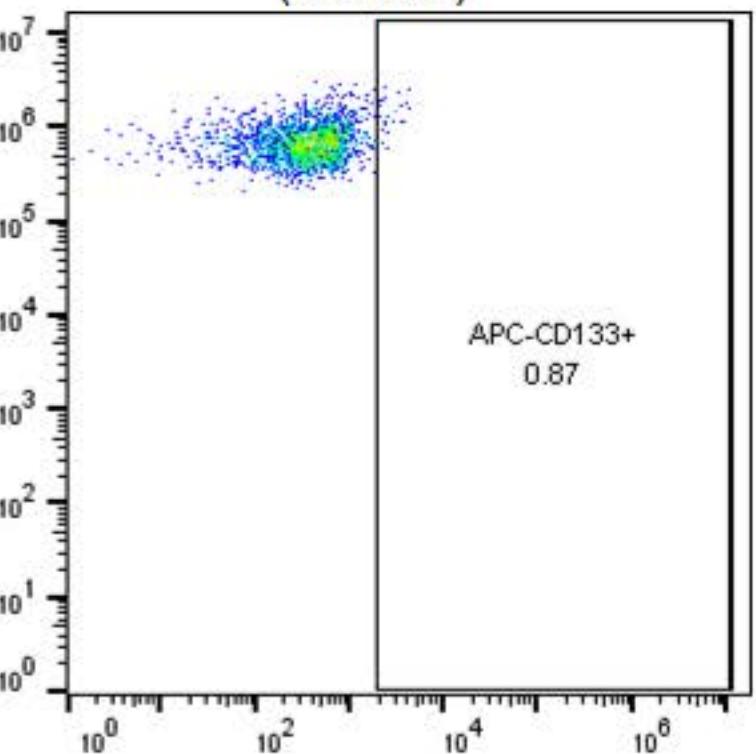
DDK-Empty
APC Mouse Anti-Human CD133
Clone W6B3C1

**D**

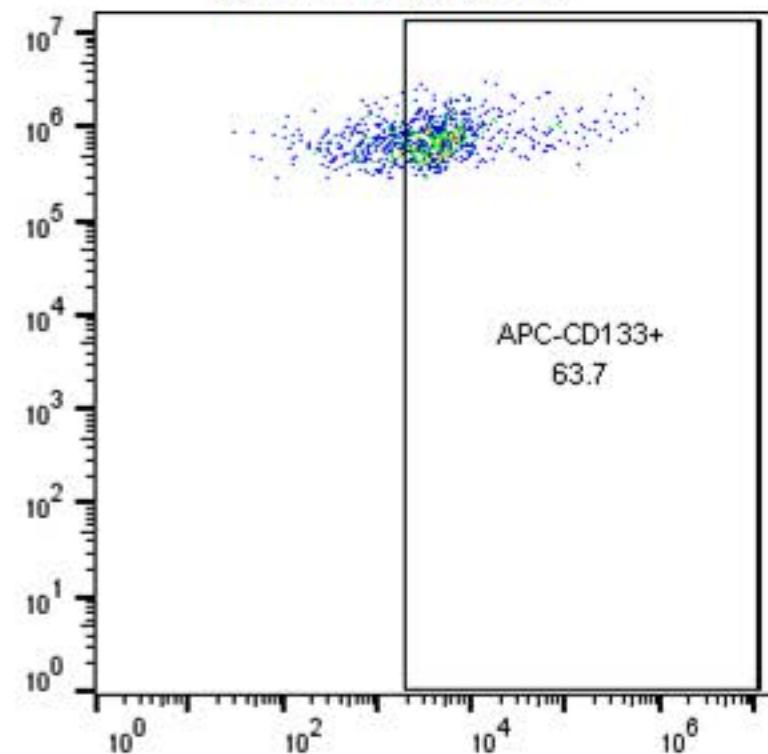
DDK-UBXN2A-unstained
(Control)

**E**

DDK-UBXN2A
APC Mouse IgG1 κ Isotype
(Control)

**F**

DDK-UBXN2A
APC Mouse Anti-Human CD133
Clone W6B3C1



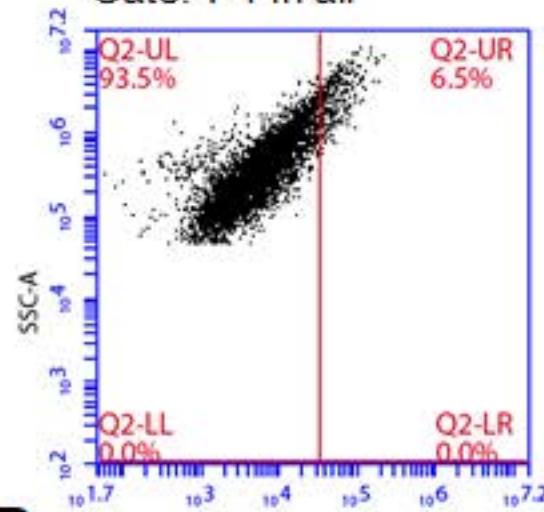
SSC-A :: SSC-A

FL4-A :: CD133-APC-A

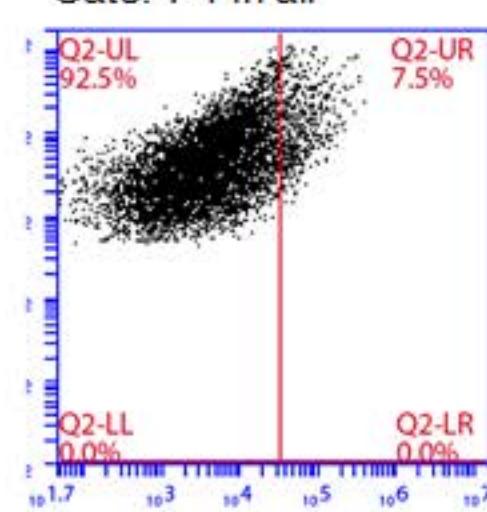
5-FU-resistant HCT-116 colon cancer cell line

A

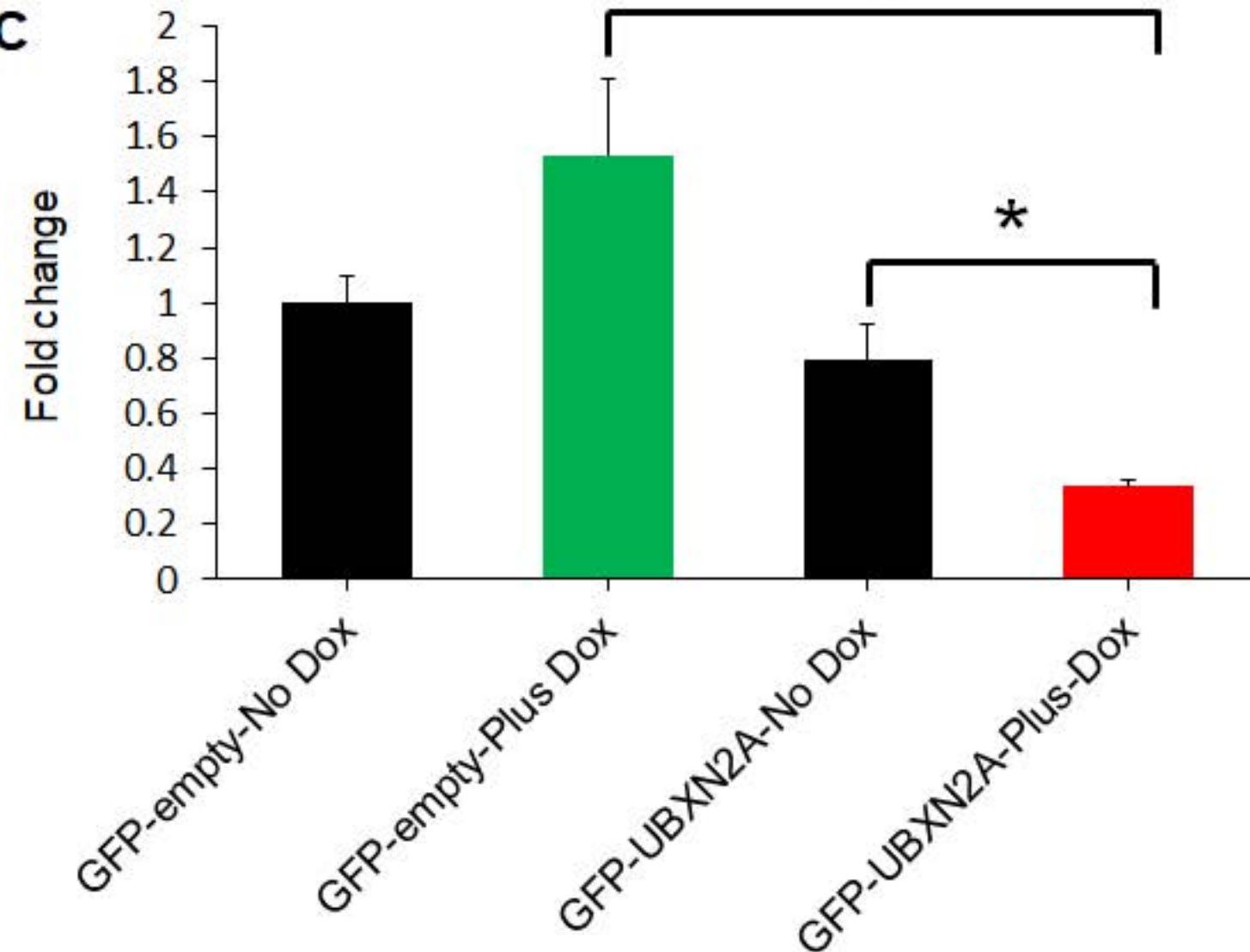
GFP-Empty-No Dox
Gate: P1 in all



GFP-Empty-Plus Dox
Gate: P1 in all

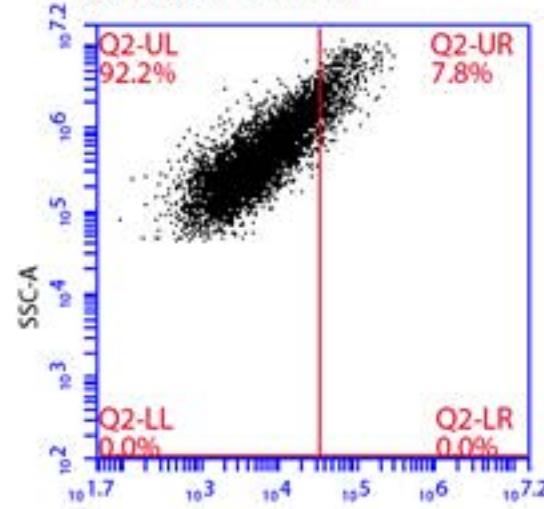


C

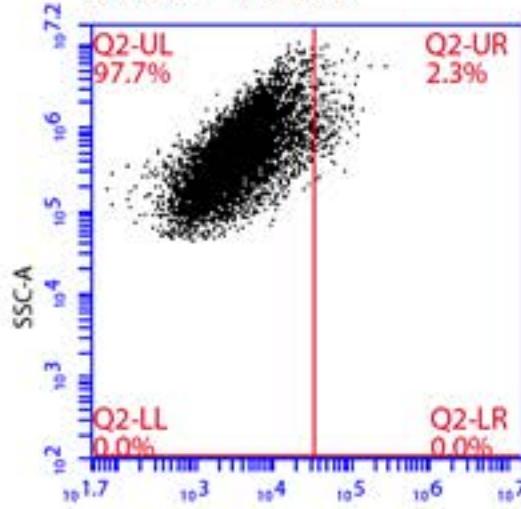


B

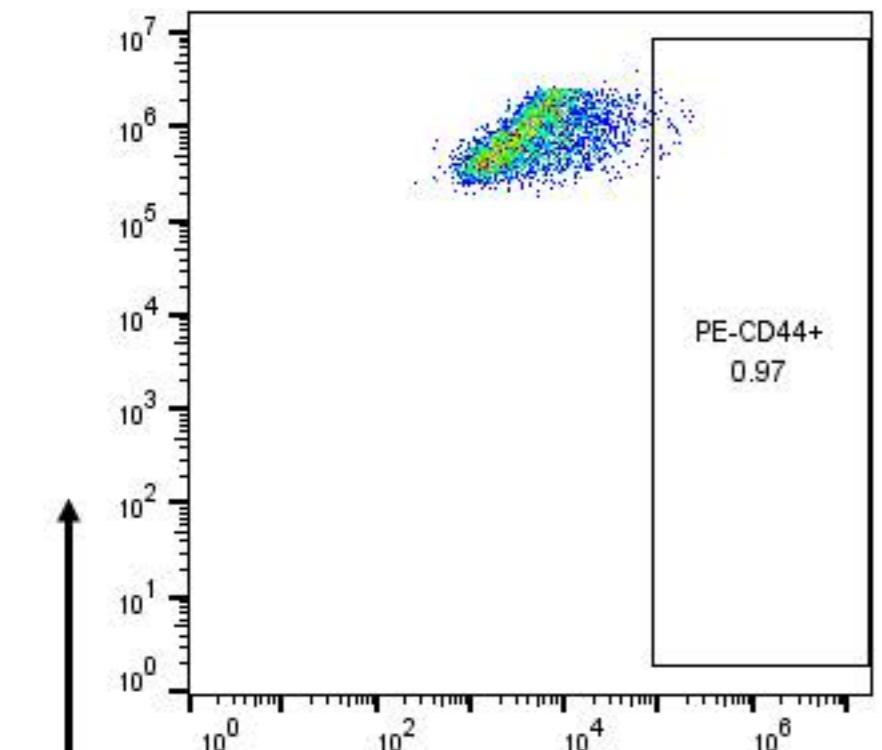
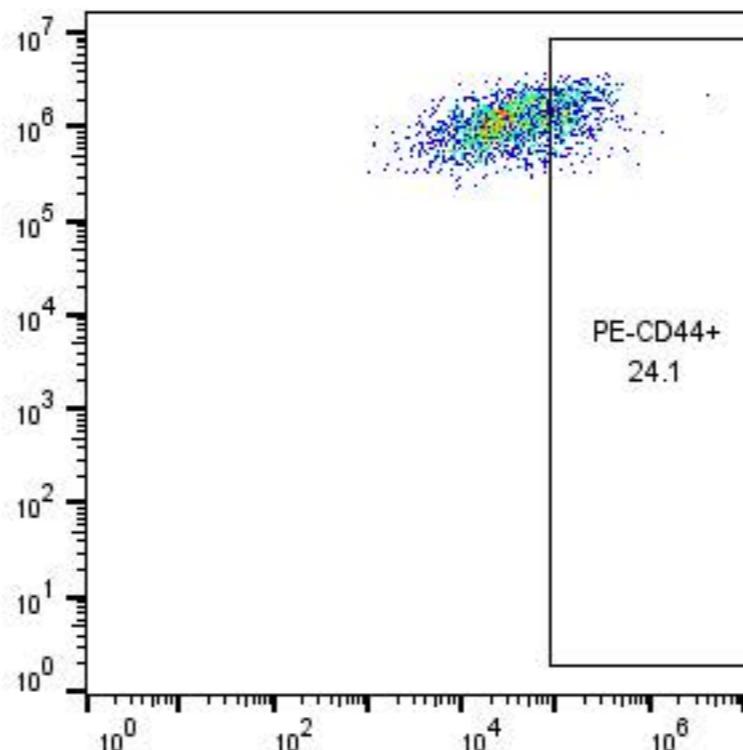
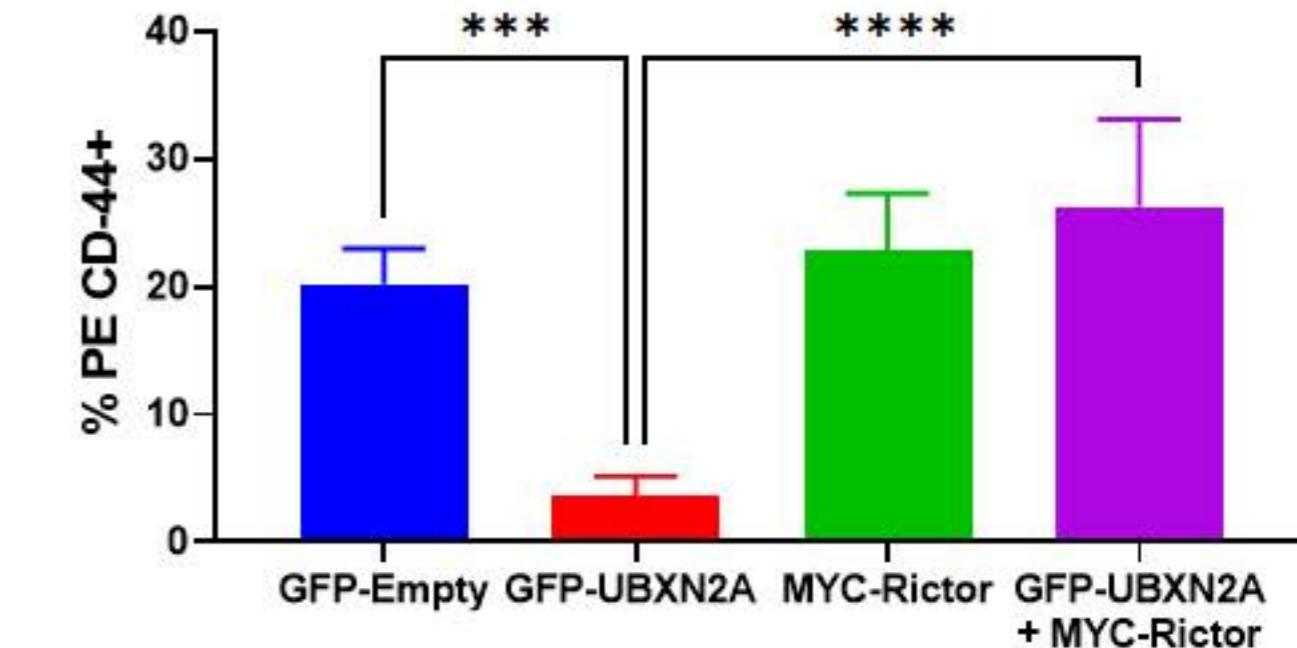
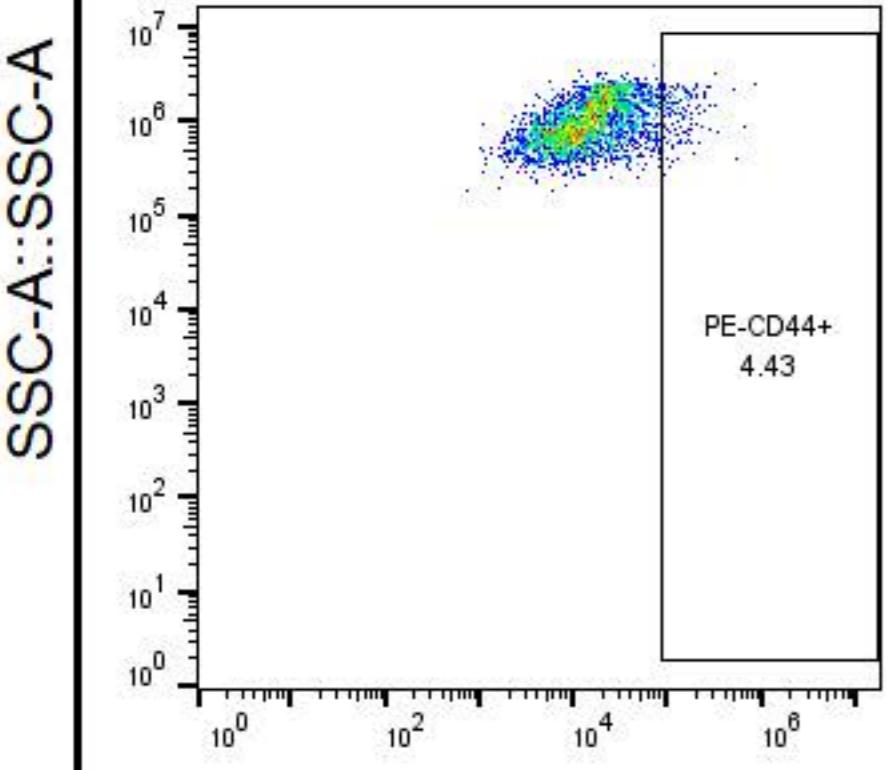
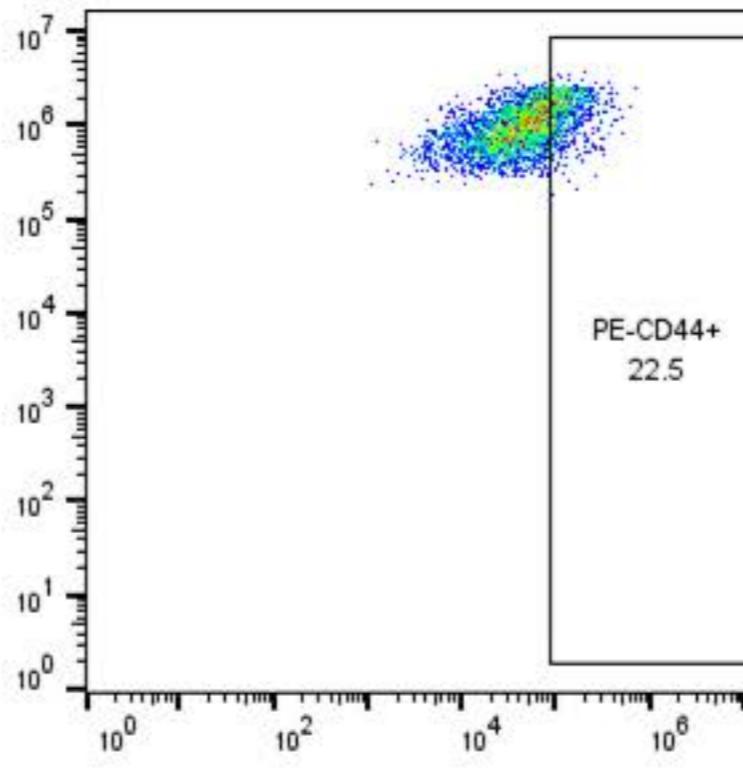
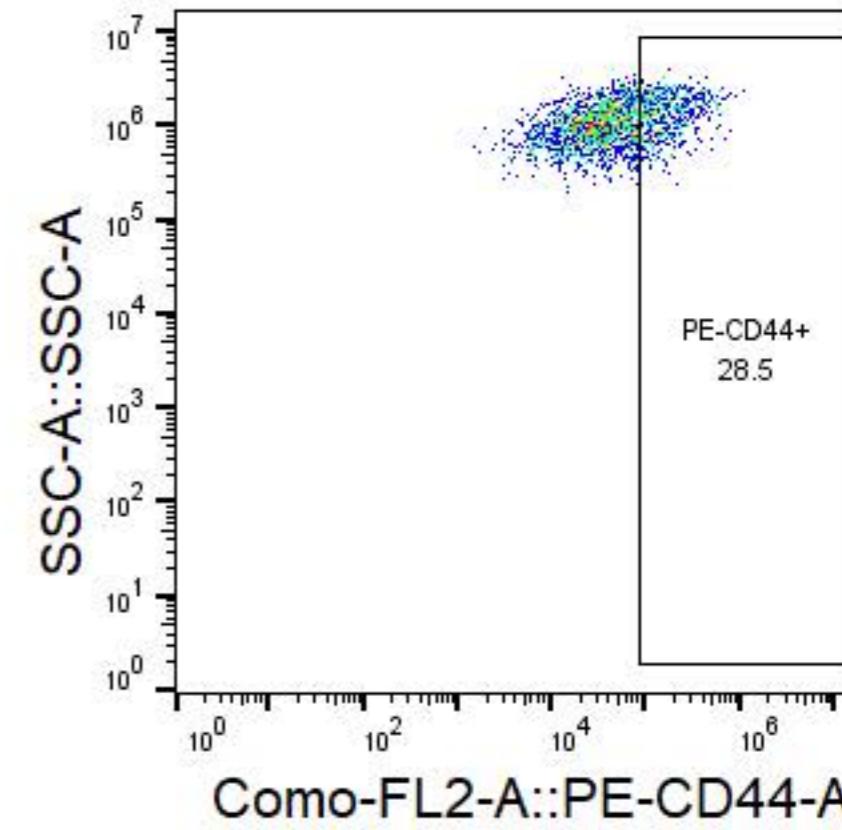
GFP-UBXN2A-No Dox
Gate: P1 in all



GFP-UBXN2A-Plus Dox
Gate: P1 in all



Phospho-Akt (ser 473)
Alexa Fluor 647 conjugate

A**Cells-unstained****GFP-Empty****B****GFP-UBXN2A****MYC-Rictor****C****GFP-Empty
+ MYC-Rictor**

Como-FL2-A::PE-CD44-A