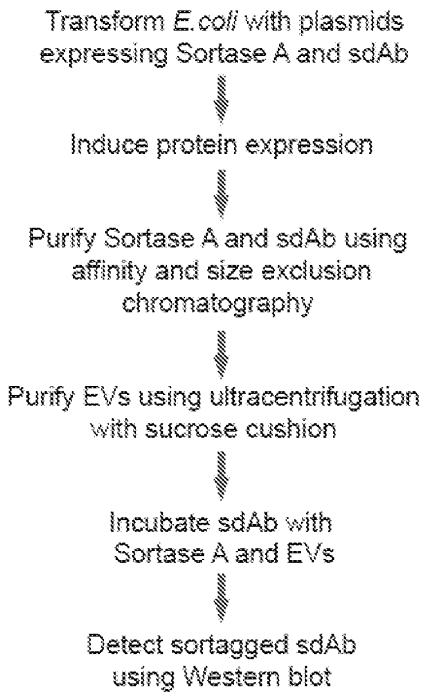


Figure 1a

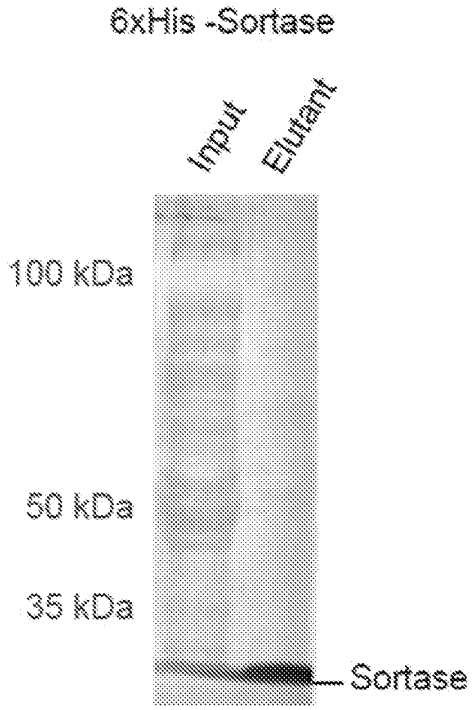


Figure 1b

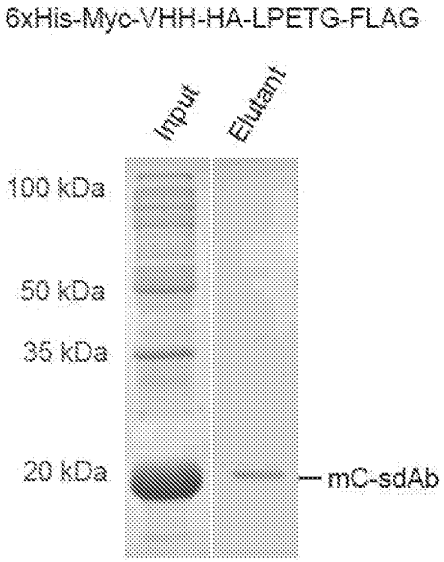


Figure 1c

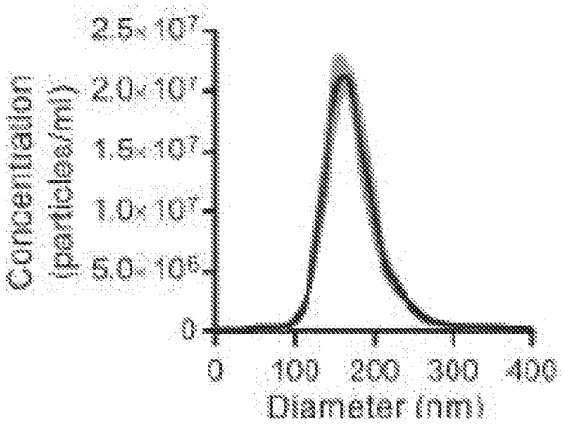


Figure 1d

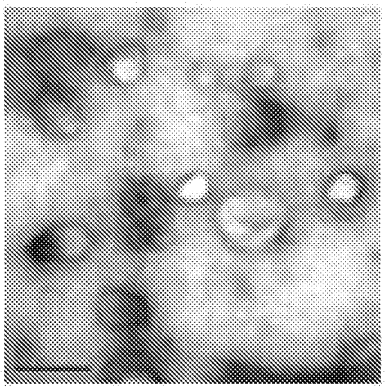


Figure 1e

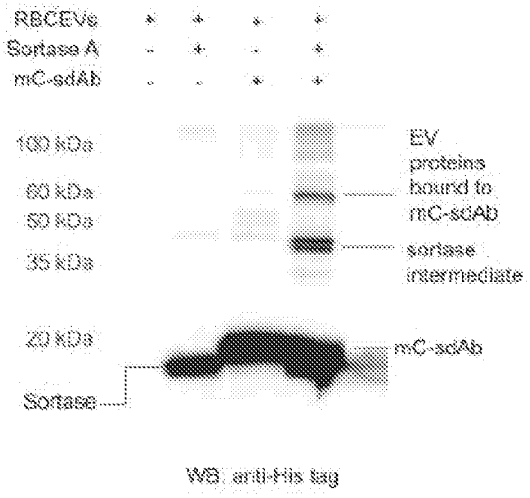


Figure 1f

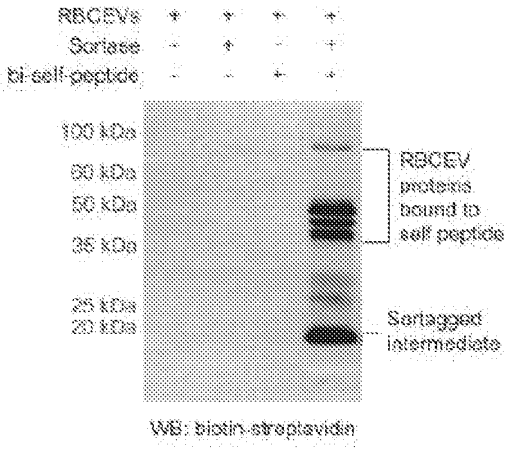


Figure 2a

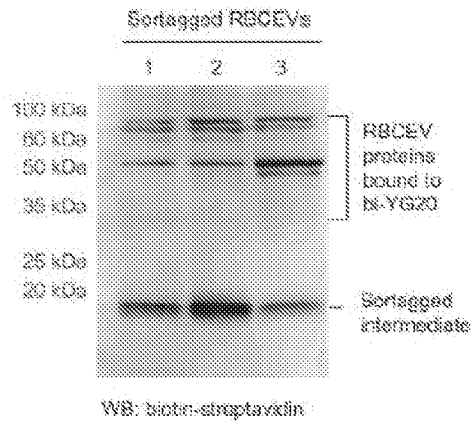


Figure 2b

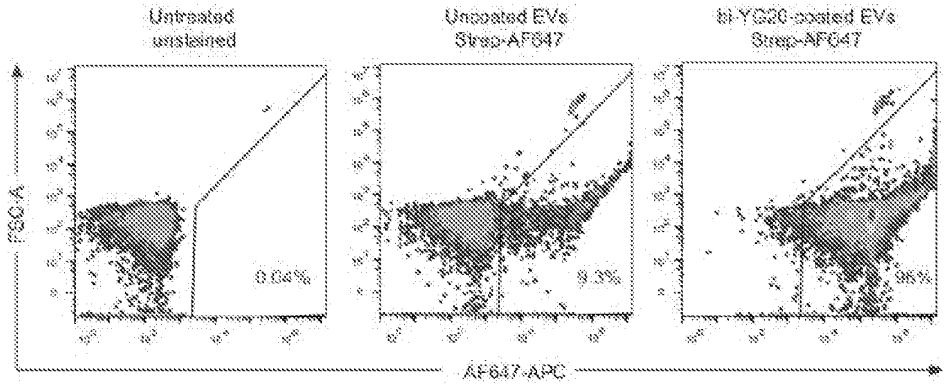


Figure 2c

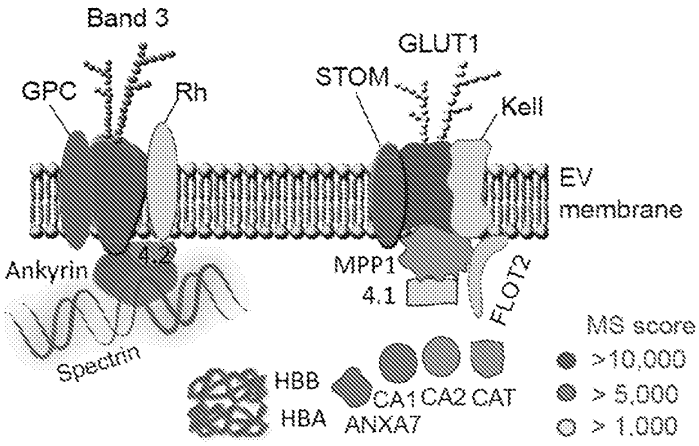


Figure 2d

Name	Description	MW	Score
STOM	Erythrocyte integral band 7 membrane protein	31.9	242
GLUT1	Solute carrier family glucose transporter member 1	54.4	91
MPP1	55 kDa erythrocyte membrane protein	52.5	29

Figure 2e

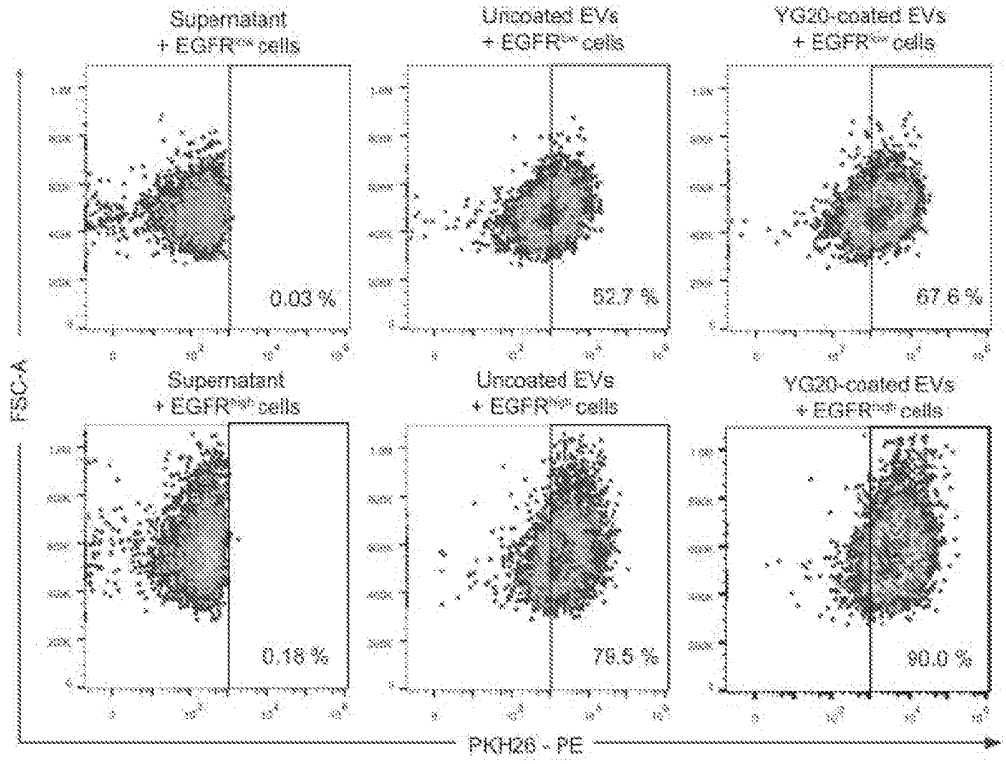


Figure 3a

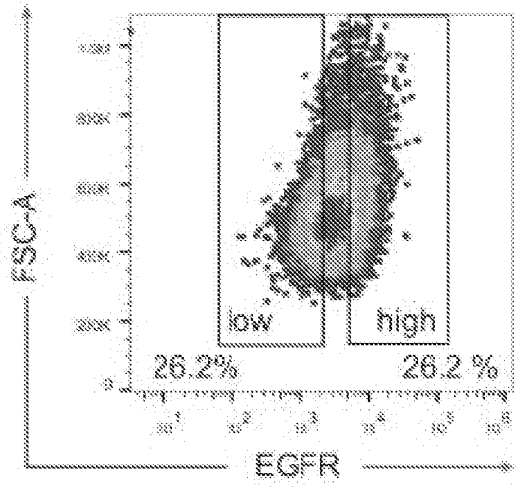


Figure 3b

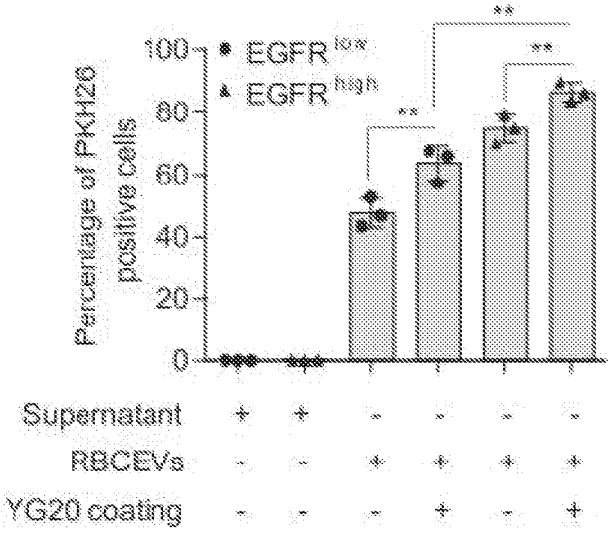

Percentage of PKH26 positive cells
100
80
60
40
20
0
EGFR low
EGFR high
**
**
**
Supernatant + + - - - -
RBCEVs - - + + + +
YG20 coating - - - + - +

Figure 3c

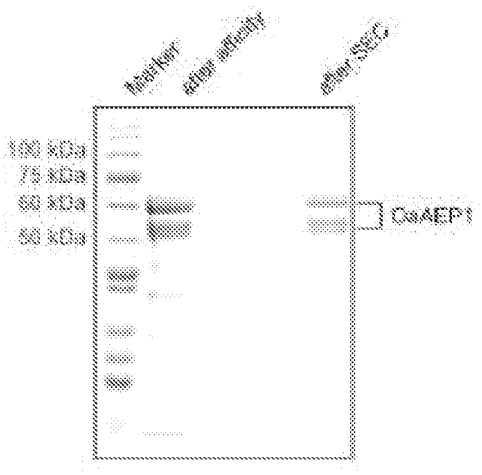


Figure 4a

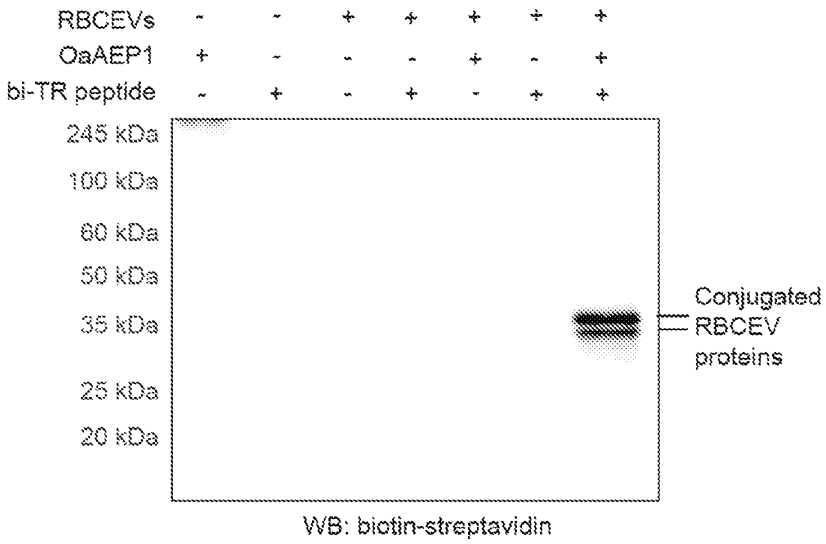


Figure 4b

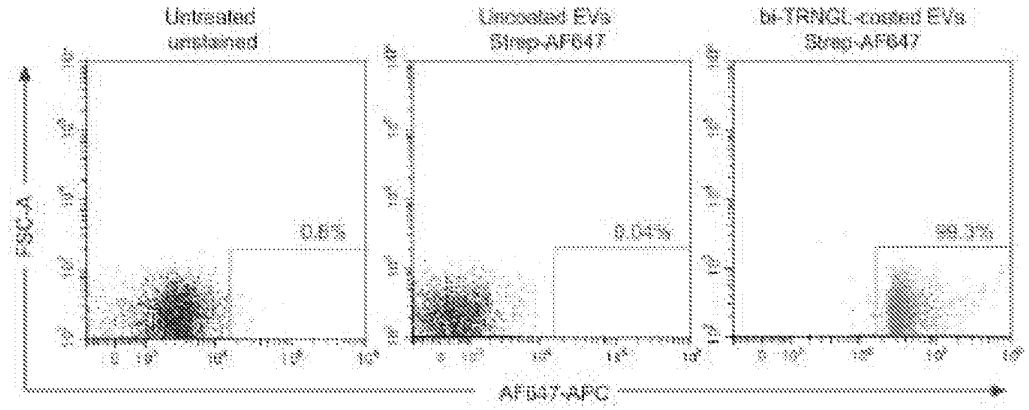


Figure 4c

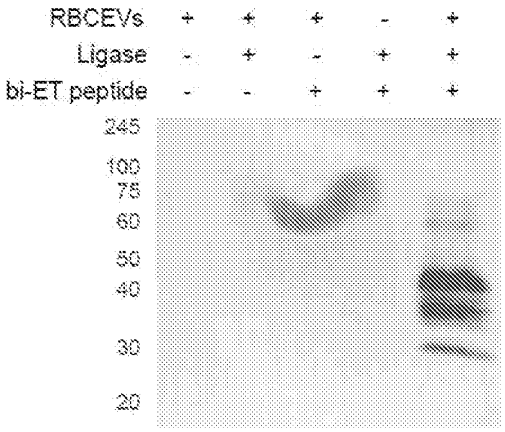


Figure 4d

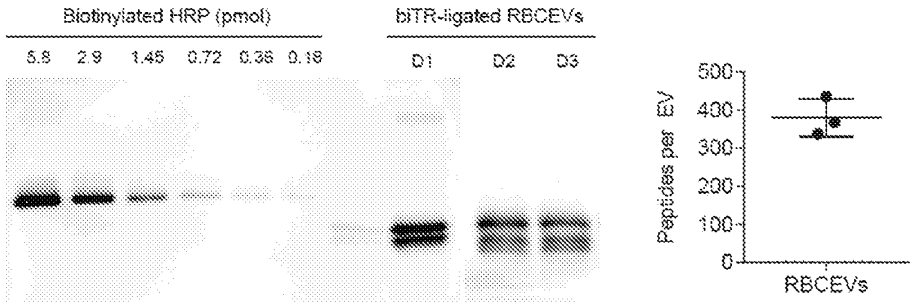

Biotinylated HRP (pmol)
5.8
2.9
1.45
0.72
0.36
0.18
biTR-ligated RBCEVs
D1
D2
D3
Peptides per EV
500
400
300
200
100
0
RBCEVs

Figure 4e

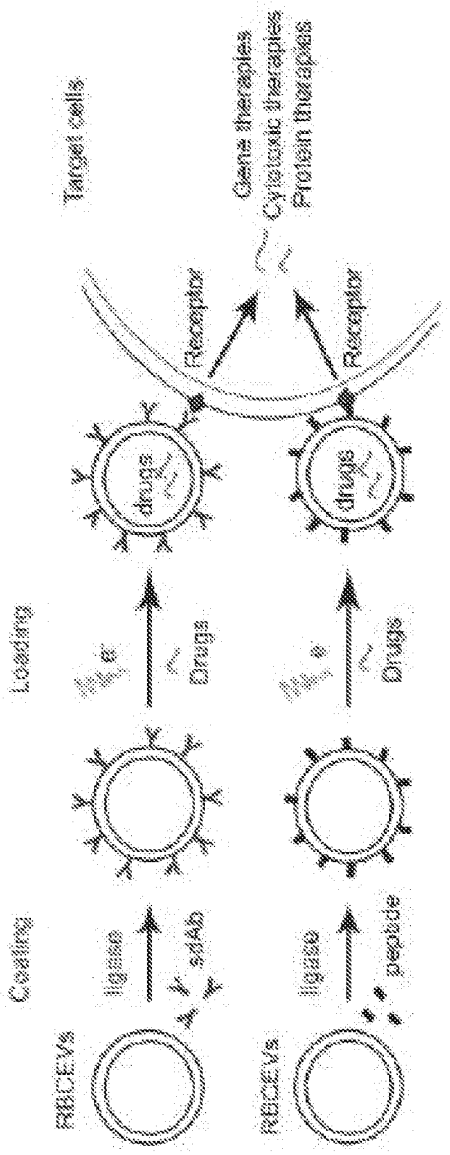


Figure 5

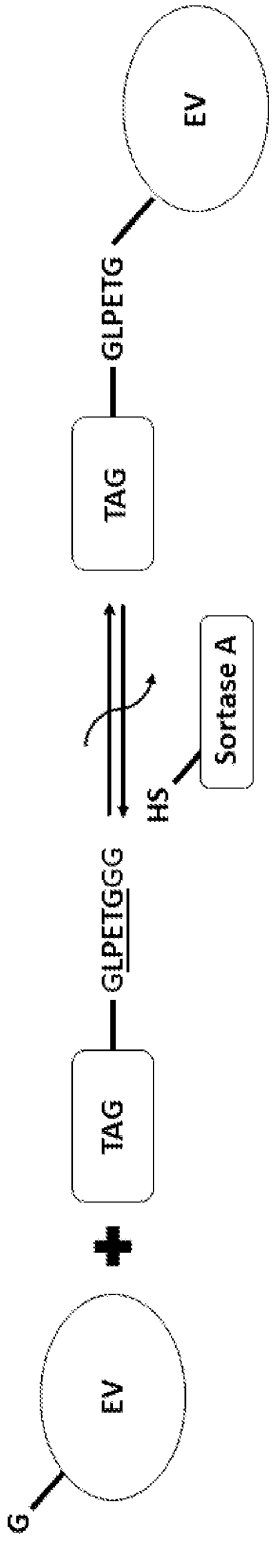


Figure 6

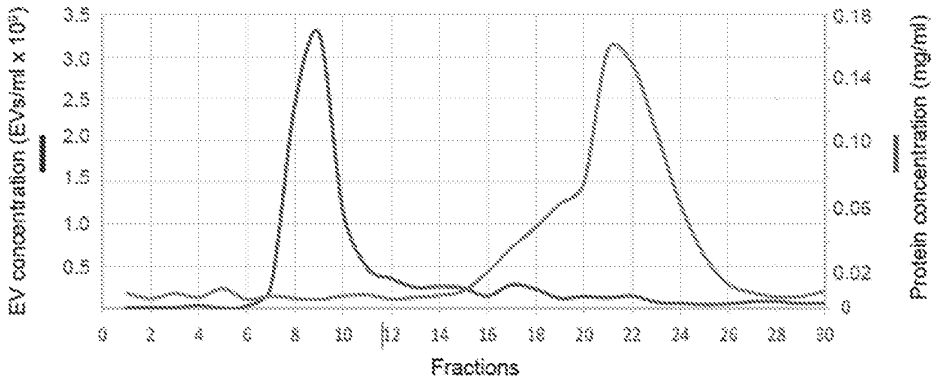


Figure 7a

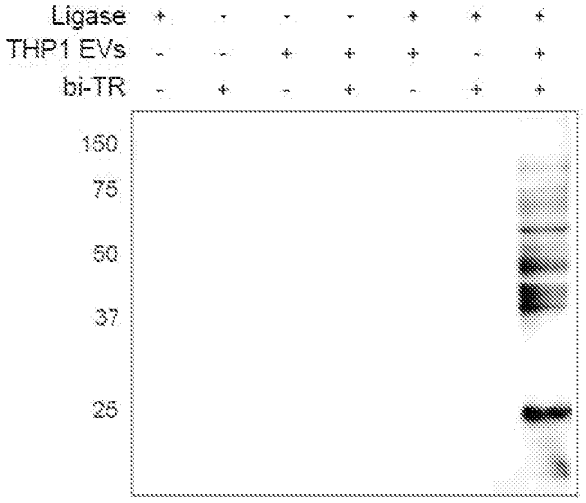


Figure 7b

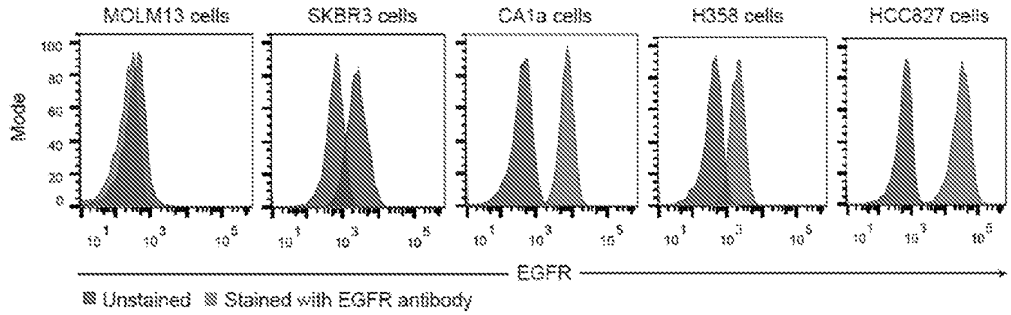


Figure 8a

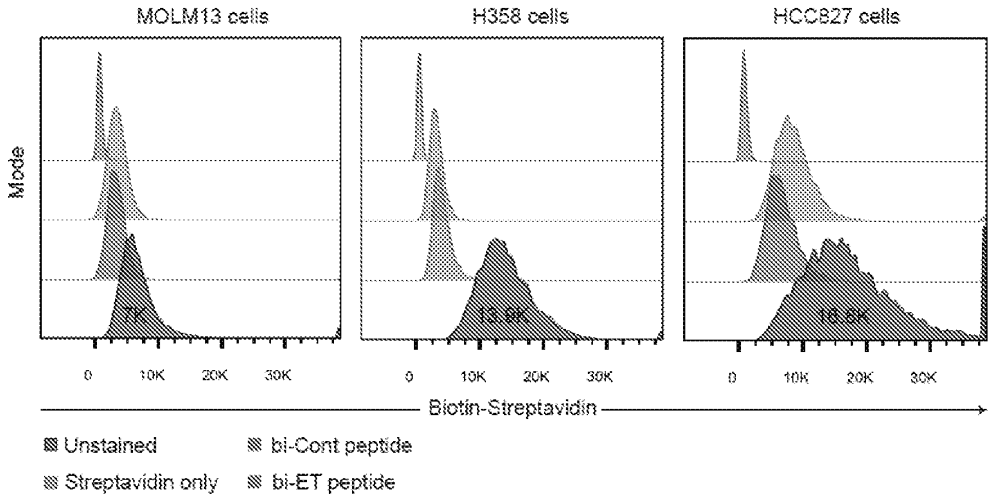


Figure 8b

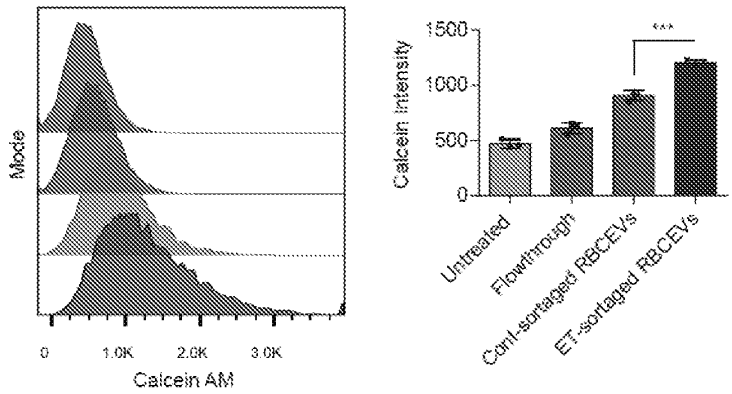


Figure 8c

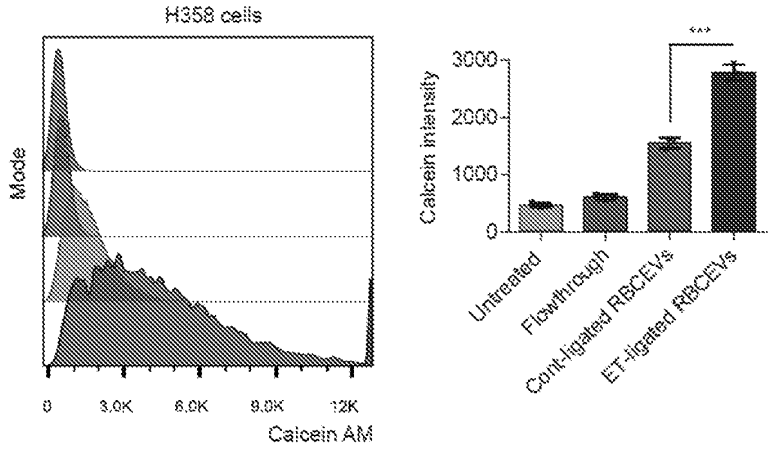


Figure 9a

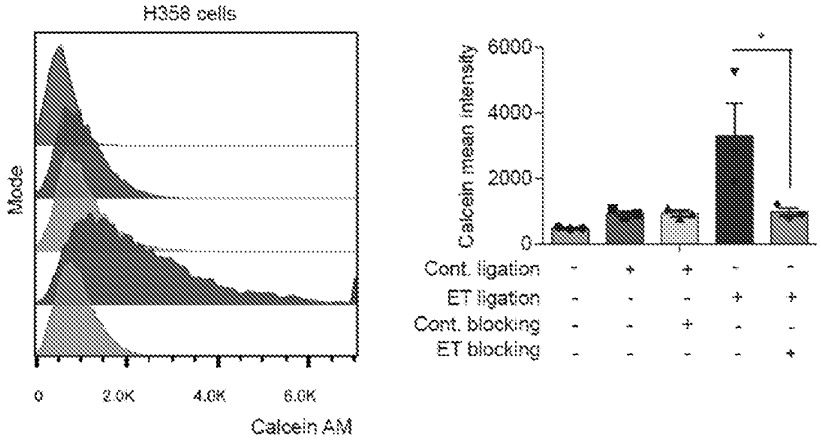


Figure 9b

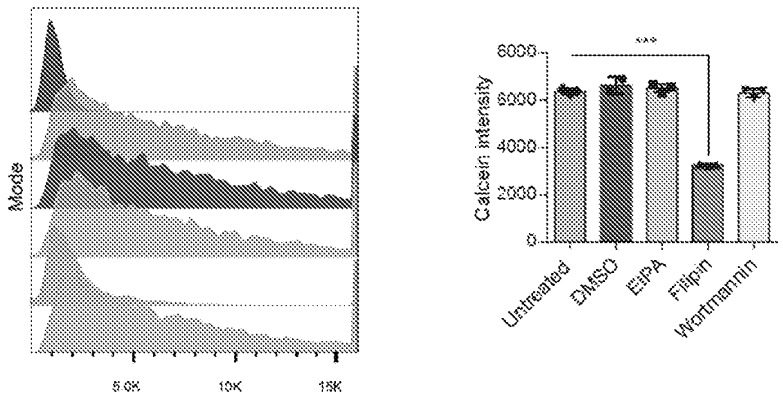


Figure 9c

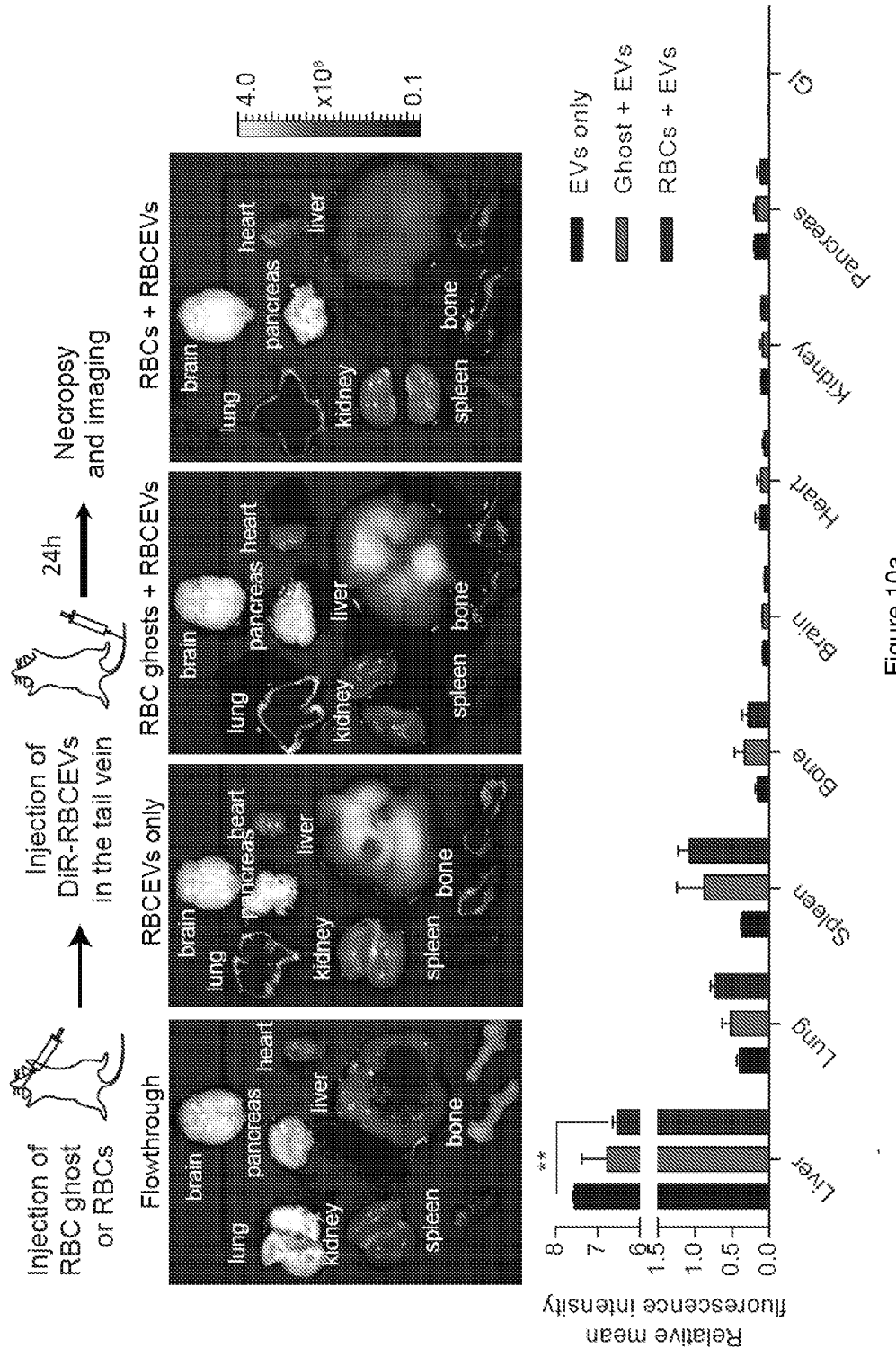

Injection of RBC ghost or RBCs
Injection of DiR-RBCEVs in the tail vein
24h
Necropsy and imaging
Flowthrough
RBCEVs only
RBC ghosts + RBCEVs
RBCs + RBCEVs
brain
lung
pancreas
heart
liver
kidney
spleen
bone
4.0
x10⁸
0.1
EVs only
Ghost + EVs
RBCs + EVs
Relative mean fluorescence intensity
**
Liver
Lung
Spleen
Bone
Brain
Heart
Kidney
Pancreas
GI

Figure 10a

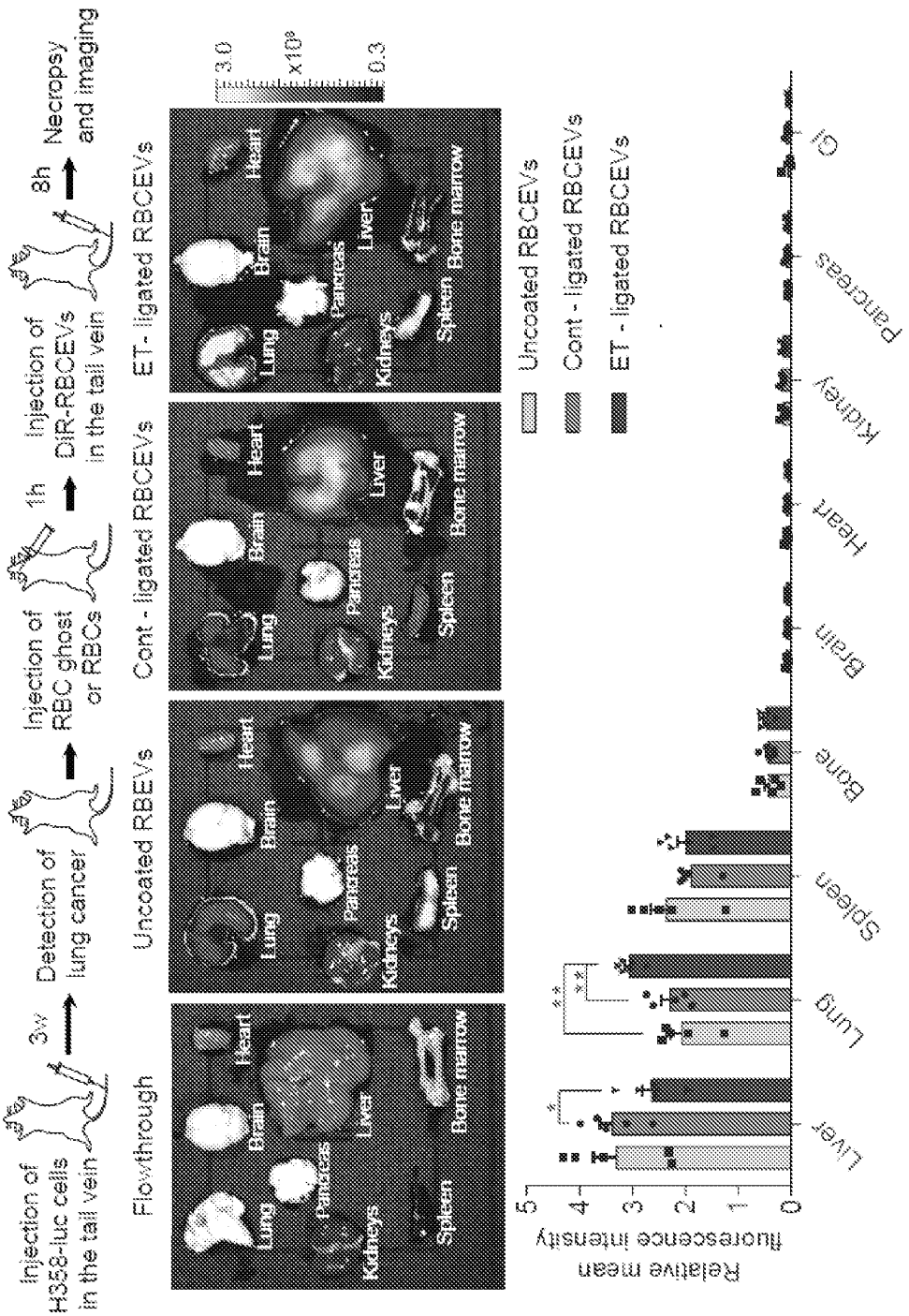

Injection of H358-luc cells in the tail vein
3w
Detection of lung cancer
Injection of RBC ghost or RBCs
1h
Injection of DiR-RBCEVs in the tail vein
8h
Necropsy and imaging
Flowthrough
Uncoated RBEVs
Cont - ligated RBCEVs
ET- ligated RBCEVs
Heart
Brain
Lung
Pancreas
Liver
Kidneys
Spleen
Bone marrow
3.0
x10⁸
0.3
Uncoated RBCEVs
Cont - ligated RBCEVs
ET - ligated RBCEVs
Relative mean fluorescence intensity
Liver
Lung
Spleen
Bone
Brain
Heart
Kidney
Pancreas
GI

Figure 10b

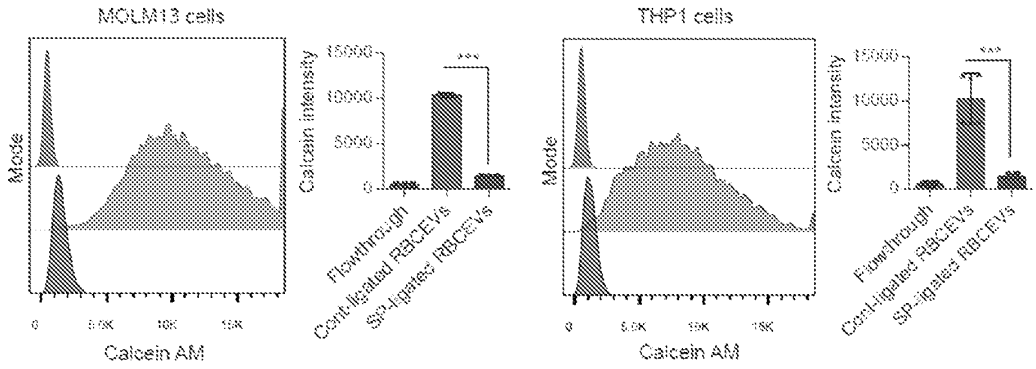


Figure 11a

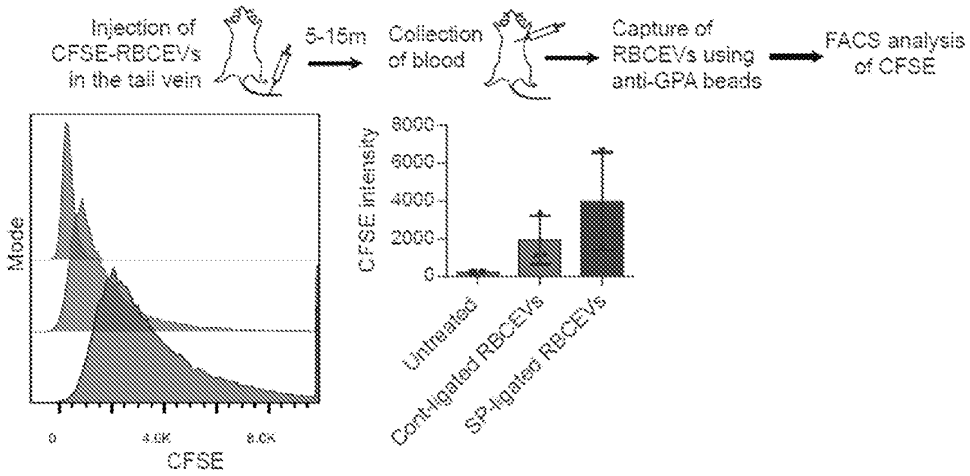


Figure 11b

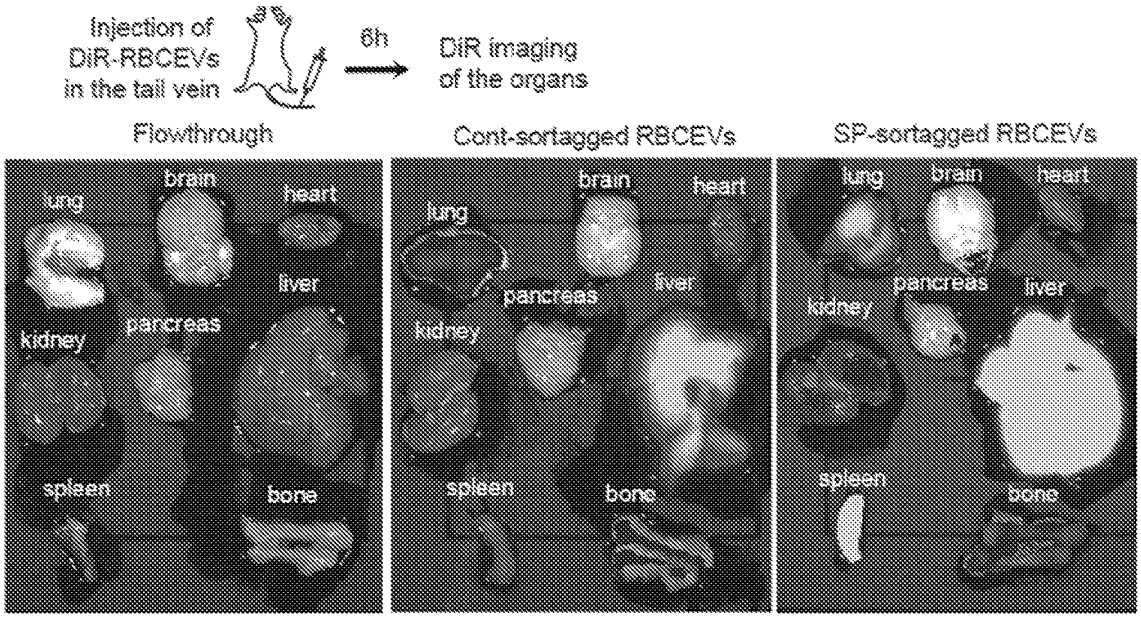

Injection of
DiR-RBCEVs
in the tail vein
6h
DiR imaging
of the organs
Flowthrough
Cont-sortagged RBCEVs
SP-sortagged RBCEVs
lung
brain
heart
liver
kidney
pancreas
spleen
bone

Figure 11c

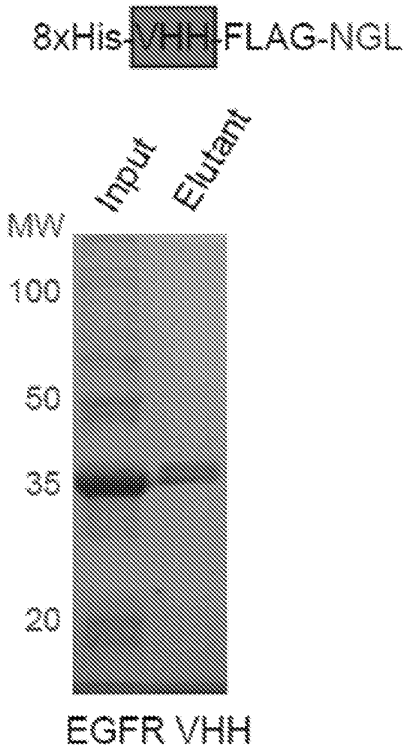


Figure 12a

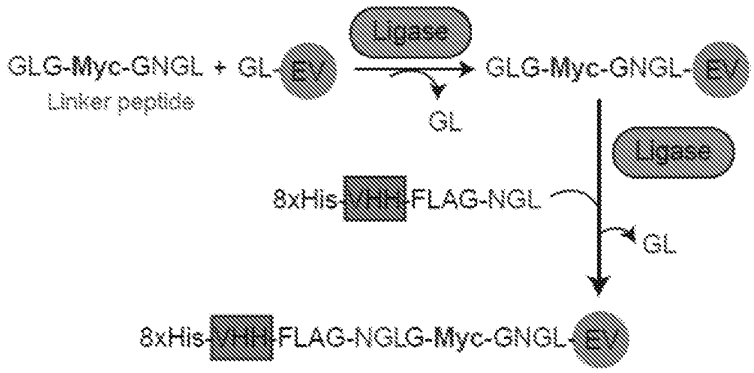


Figure 12b

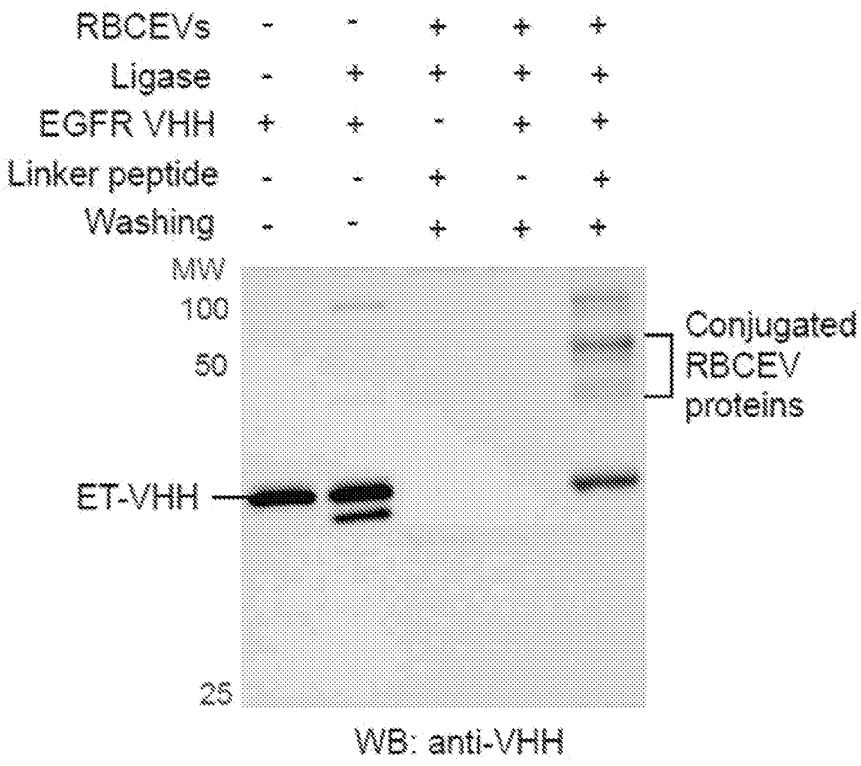


Figure 12c

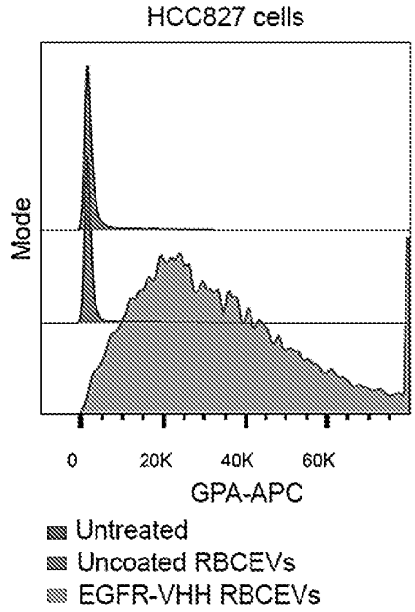


Figure 12d

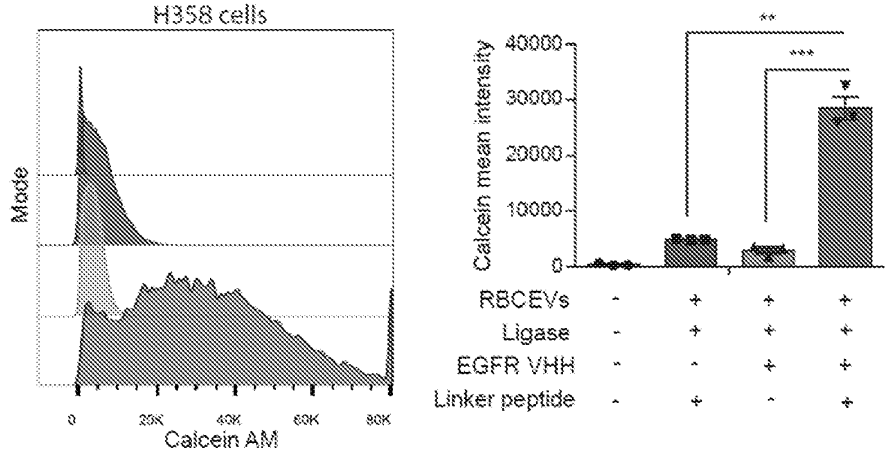


Figure 13a

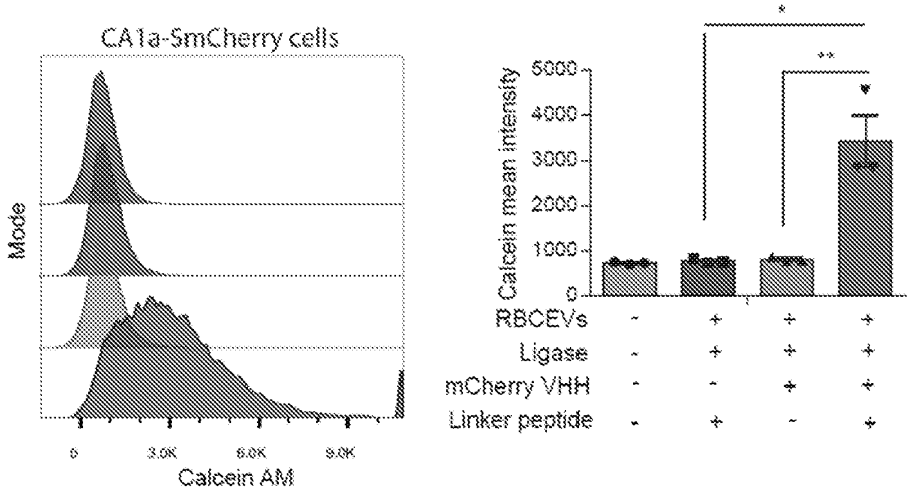


Figure 13b

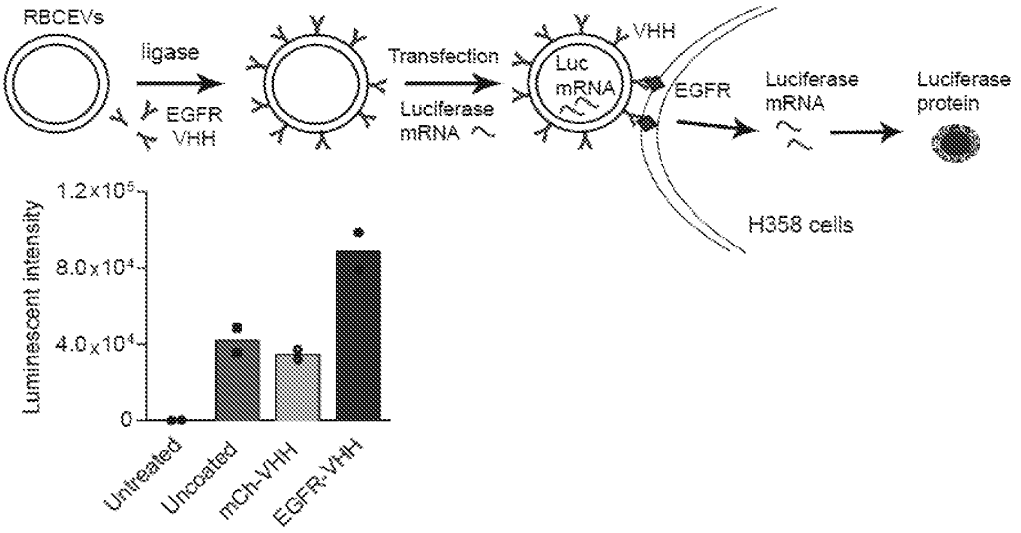


Figure 14a

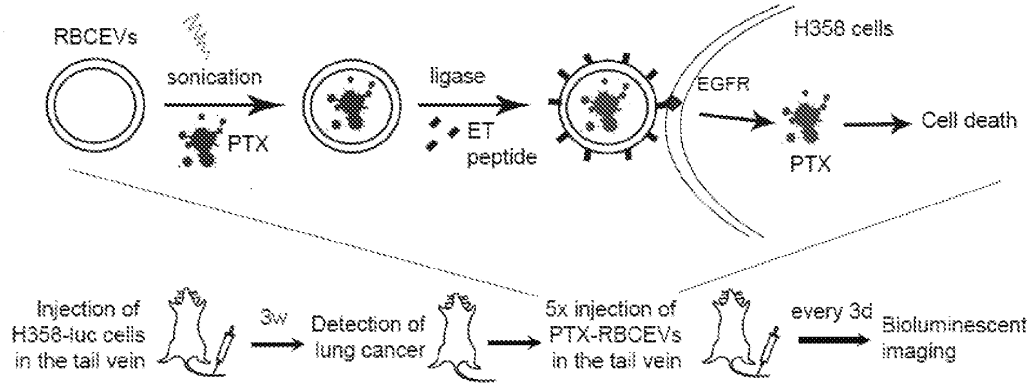


Figure 14b

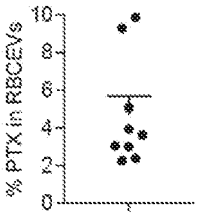


Figure 14c

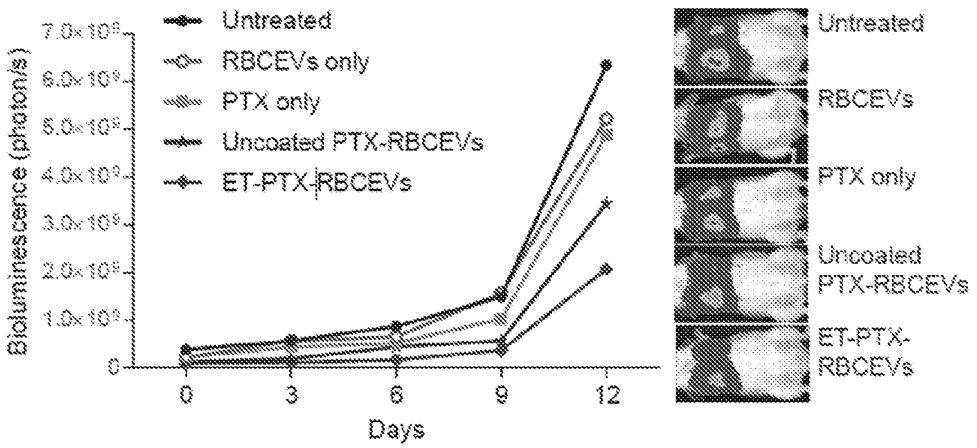


Figure 14d