

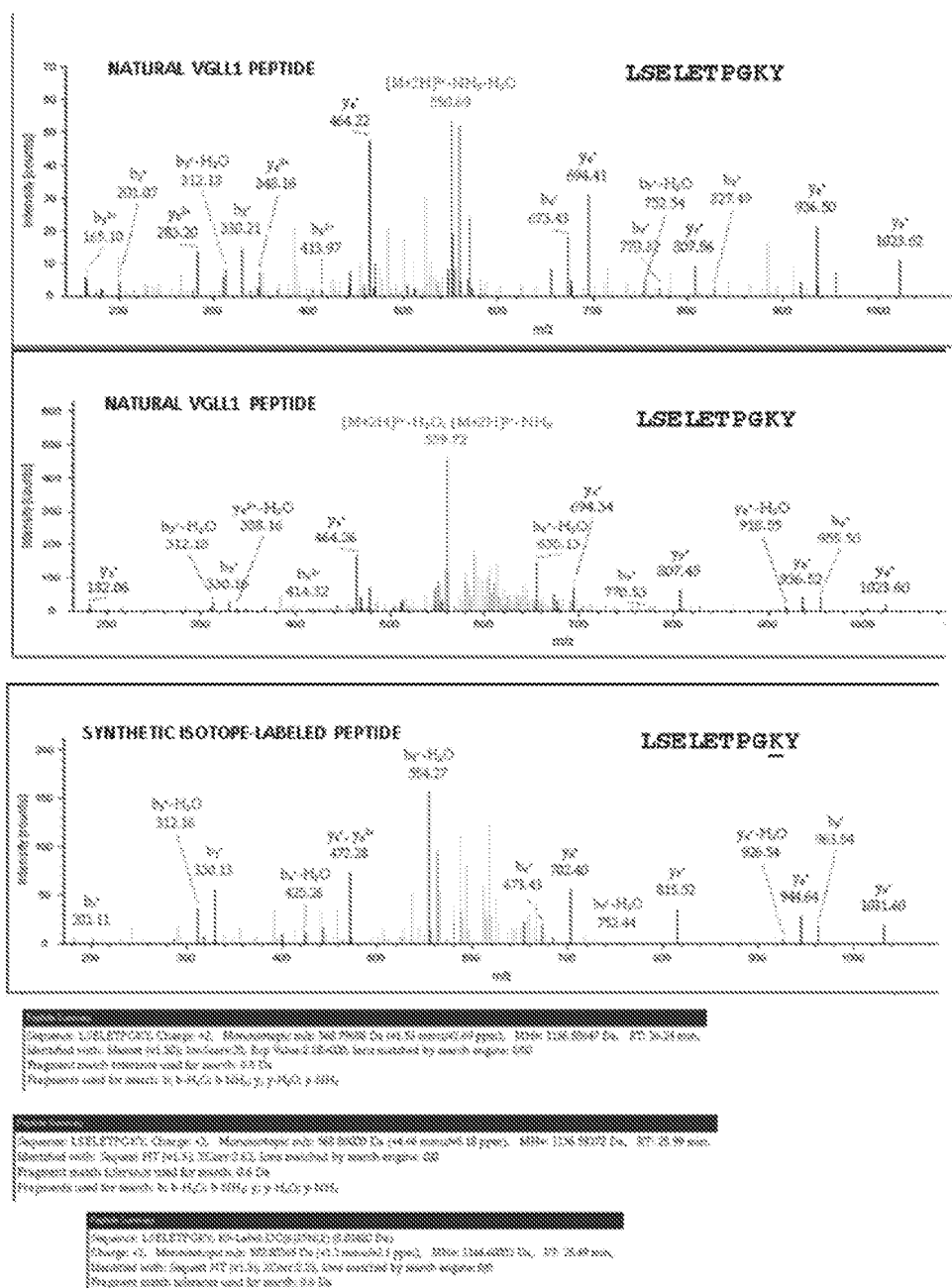
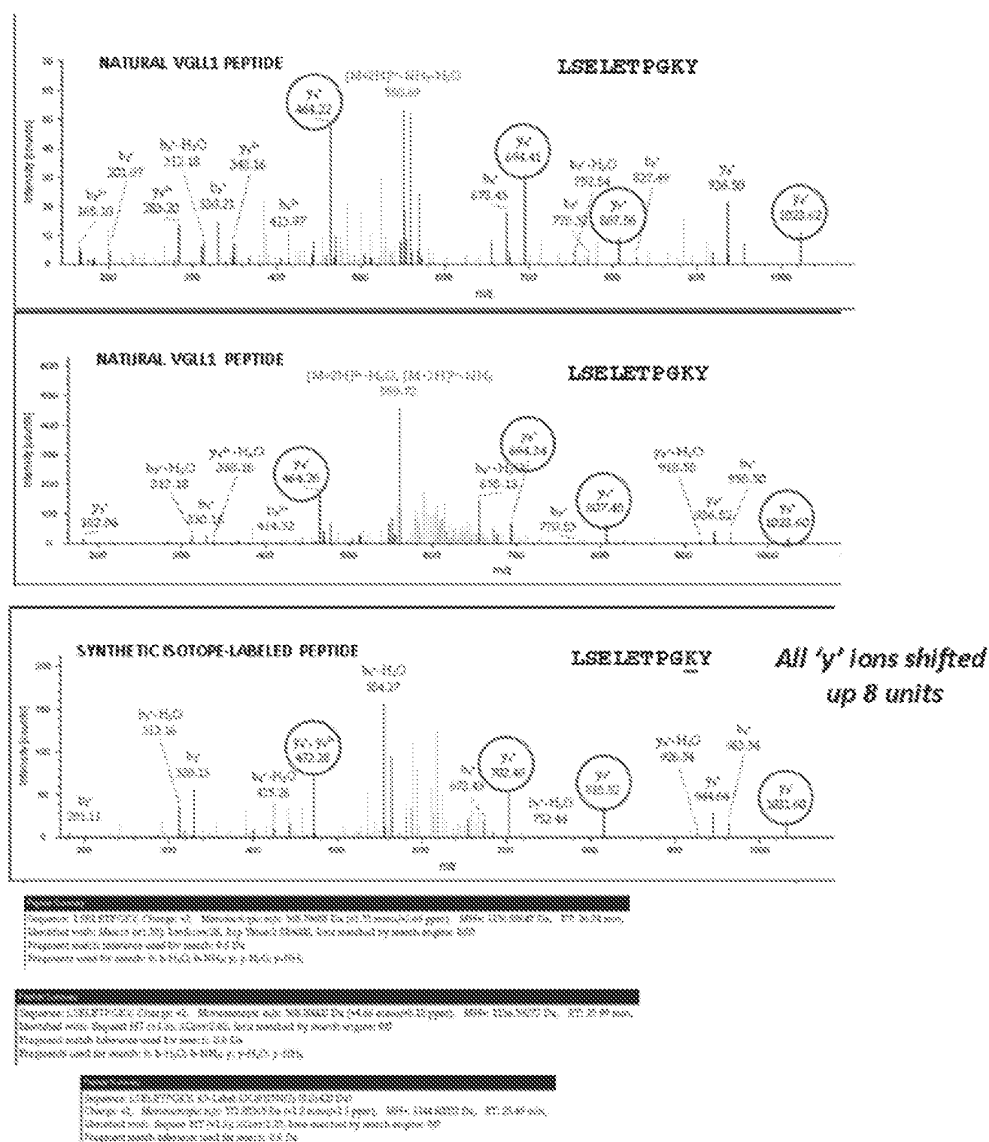


FIG. 1A



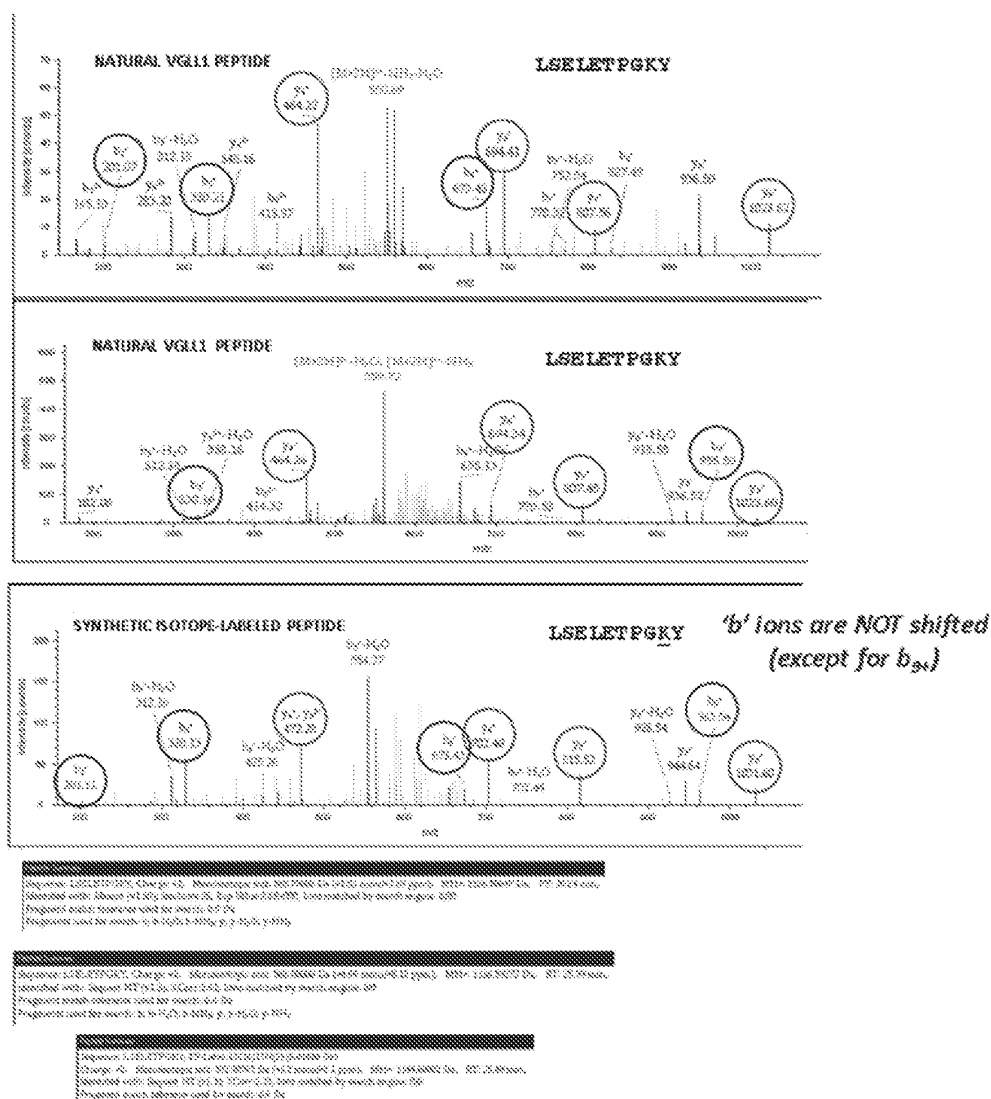


FIG. 1C

NATURAL VGLL1 PEPTIDE:

LSELETPGKY:

ISOTOPE-LABELED PEPTIDE:

LSELETPGKY:

HEAVY LYSINE
(C¹⁵ + N¹³)

#1	SEQ.	b ⁺
1	L	114.09135
2	S	201.12338
3	E	330.16598
4	L	443.25005
5	E	572.29265
6	T	673.34033
7	P	770.39310
8	G	827.41457
9	K	955.50954
10	Y	

PREDICTED
MASSES
OF 'b' IONS:ALL ARE IDENTICAL
EXCEPT FOR 'b₉',
WHICH CONTAINS THE
HEAVY LYSINE (K)

b ⁺	SEQ.	#2
114.09135	L	1
201.12338	S	2
330.16598	E	3
443.25005	L	4
572.29265	E	5
673.34033	T	6
770.39310	P	7
827.41457	G	8
963.52374	K-LABEL:13...	9
	Y	10

#2	SEQ.	y ⁺
10	L	
9	S	1023.49935
8	E	936.46732
7	L	807.42472
6	E	694.34065
5	T	565.29805
4	P	464.25037
3	G	367.19760
2	K	310.17613
1	Y	182.08116

PREDICTED
MASSES
OF 'y' IONS:ALL ARE SHIFTED UP
BY 8 UNITS, EXCEPT FOR
'y₁', WHICH CONTAINS
NO HEAVY LYSINE (K)

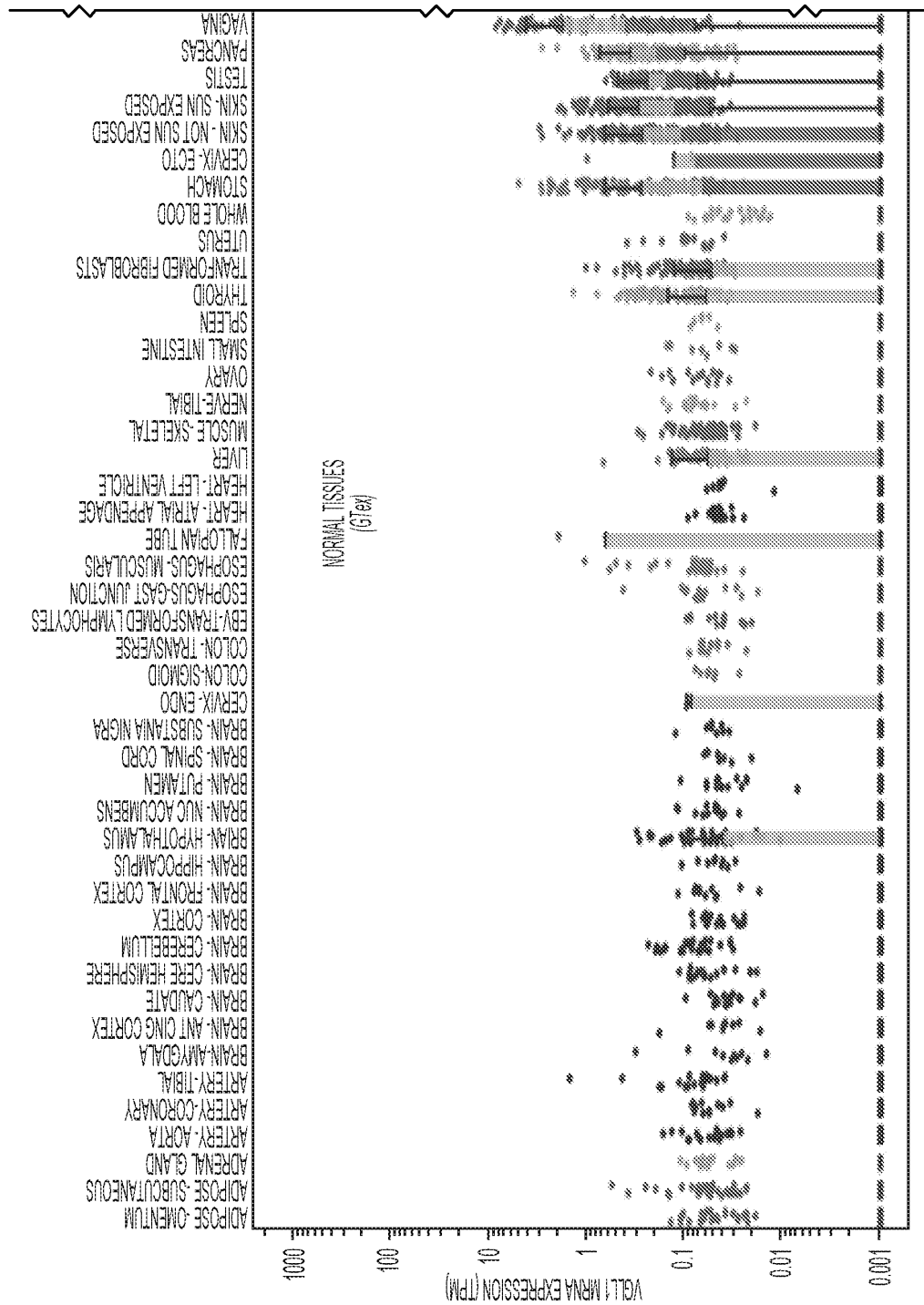
y ⁺	SEQ.	#2
	L	10
1031.51355	S	9
944.48152	E	8
815.43892	L	7
702.35485	E	6
573.31225	T	5
472.26457	P	4
375.21180	G	3
318.19033	K-LABEL:13...	2
182.08116	Y	1

'b' IONS:

b ₁	x ₁	x ₂ x ₃ x ₄ x ₅ x ₆ x ₇ x ₈ x ₉	y ₈
b ₂	x ₁ x ₂	x ₃ x ₄ x ₅ x ₆ x ₇ x ₈ x ₉	y ₇
b ₃	x ₁ x ₂ x ₃	x ₄ x ₅ x ₆ x ₇ x ₈ x ₉	y ₆
b ₄	x ₁ x ₂ x ₃ x ₄	x ₅ x ₆ x ₇ x ₈ x ₉	y ₅
b ₅	x ₁ x ₂ x ₃ x ₄ x ₅	x ₆ x ₇ x ₈ x ₉	y ₄
b ₆	x ₁ x ₂ x ₃ x ₄ x ₅ x ₆	x ₇ x ₈ x ₉	y ₃
b ₇	x ₁ x ₂ x ₃ x ₄ x ₅ x ₆ x ₇	x ₈ x ₉	y ₂
b ₈	x ₁ x ₂ x ₃ x ₄ x ₅ x ₆ x ₇ x ₈	x ₉	y ₁

'y' IONS:

FIG. 1D



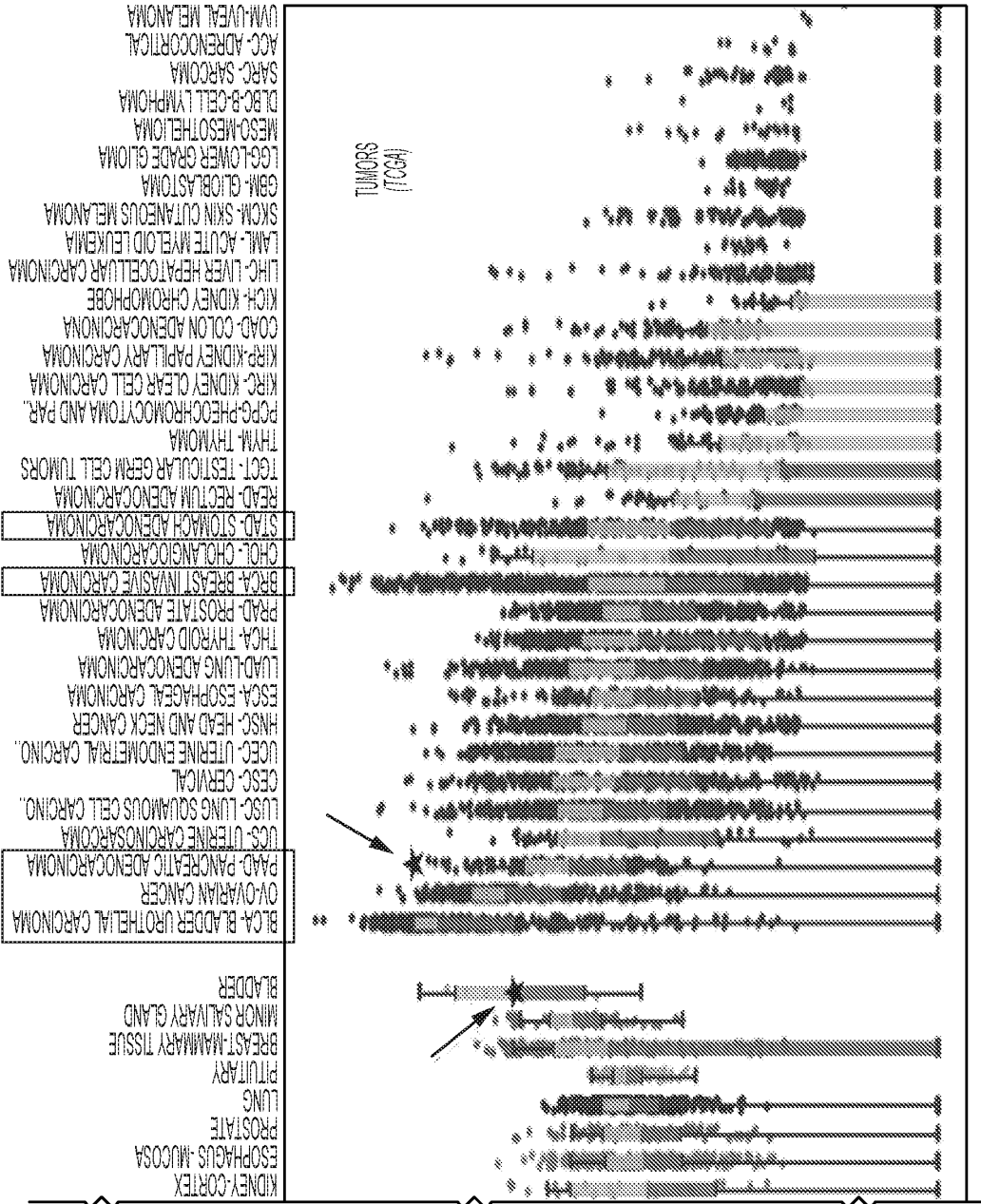


FIG. 2A CONTINUED

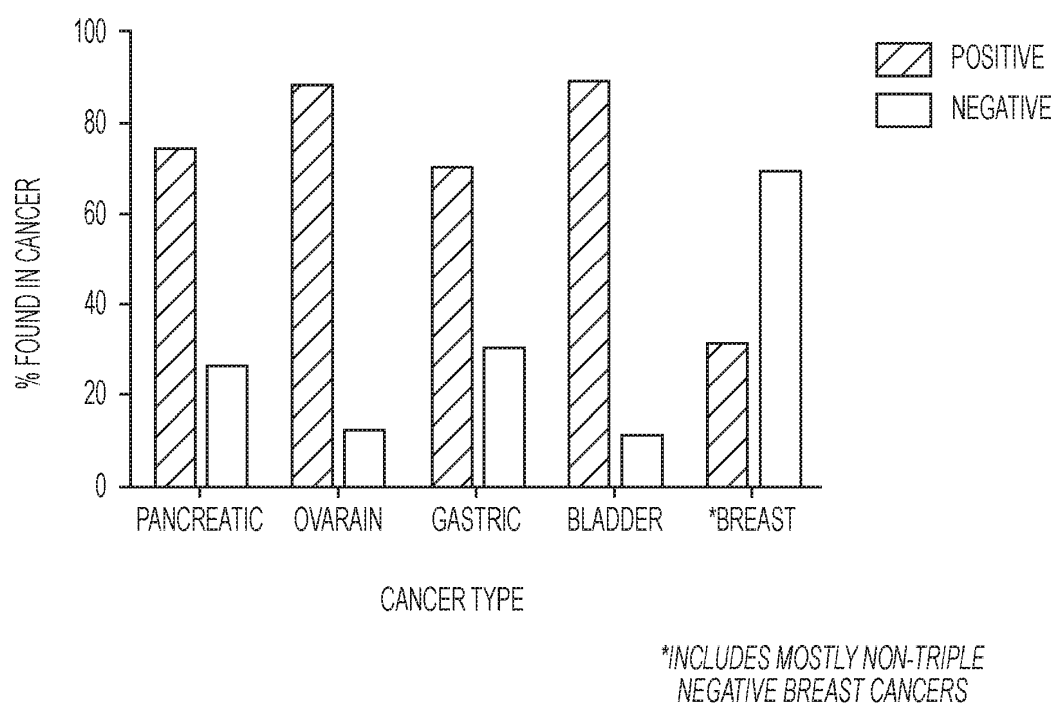


FIG. 2B

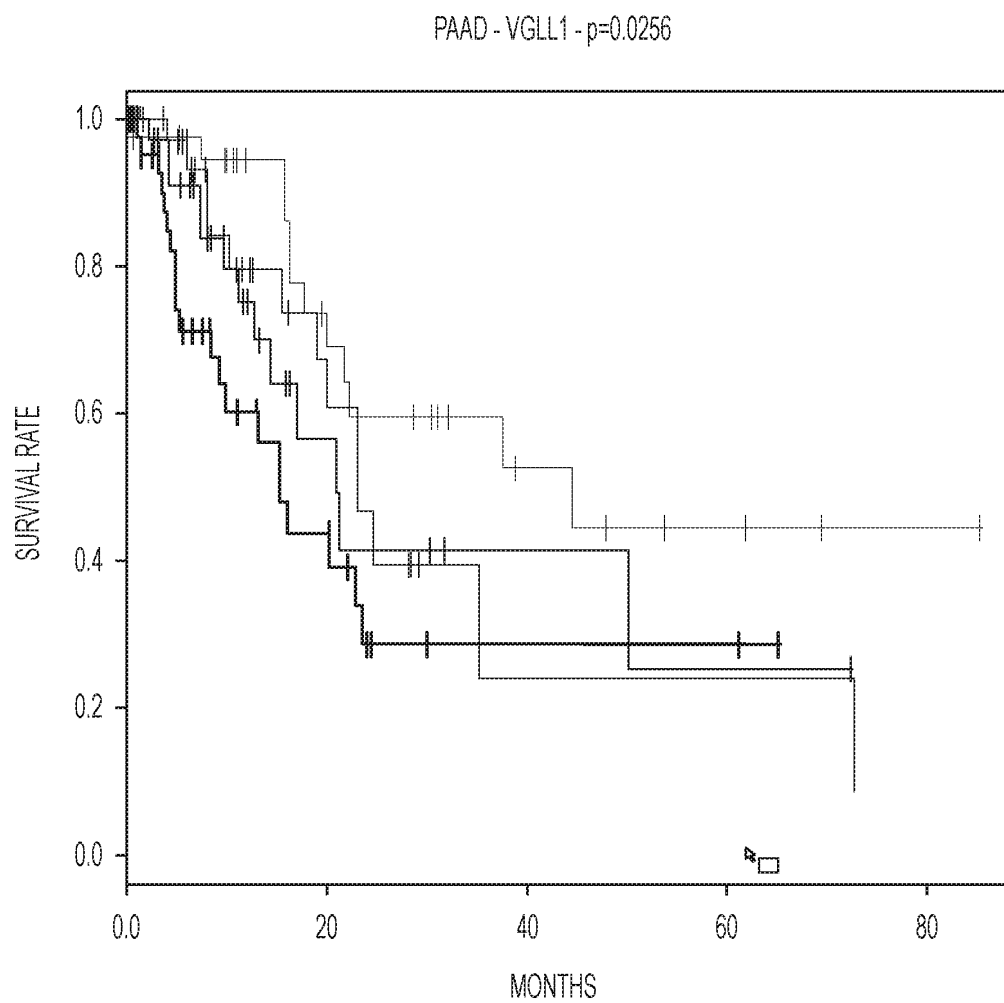


FIG. 3

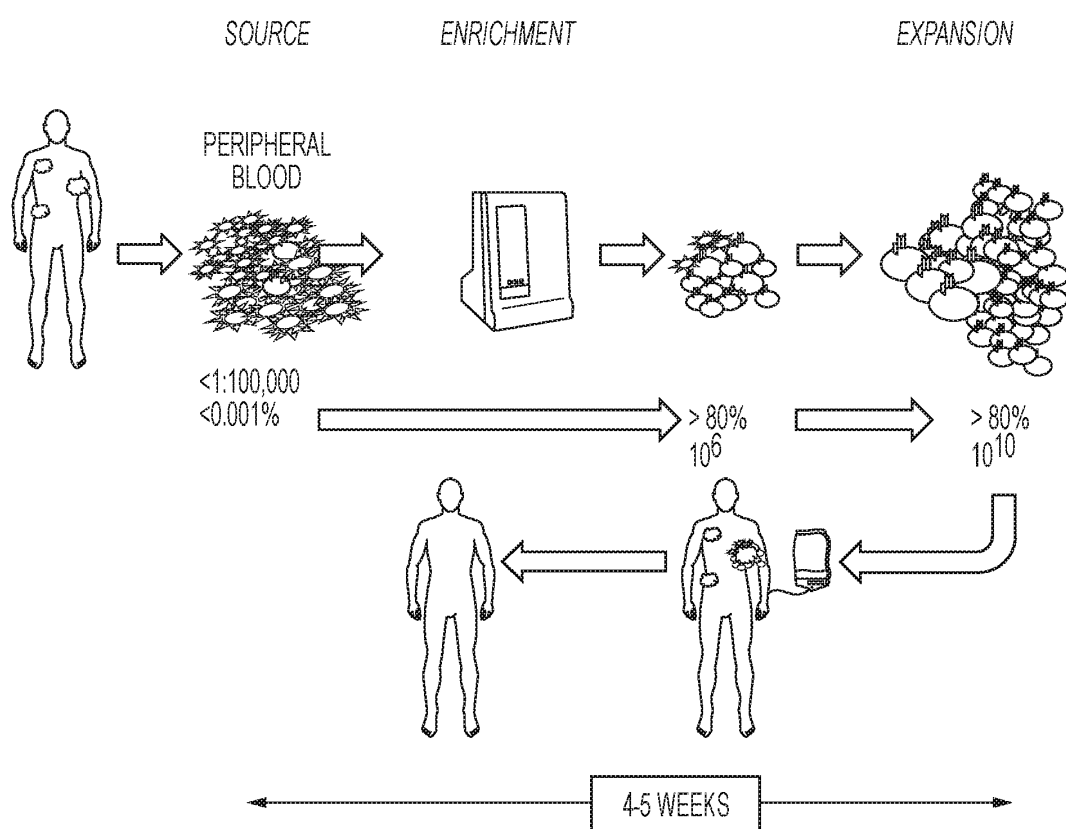


FIG. 4A

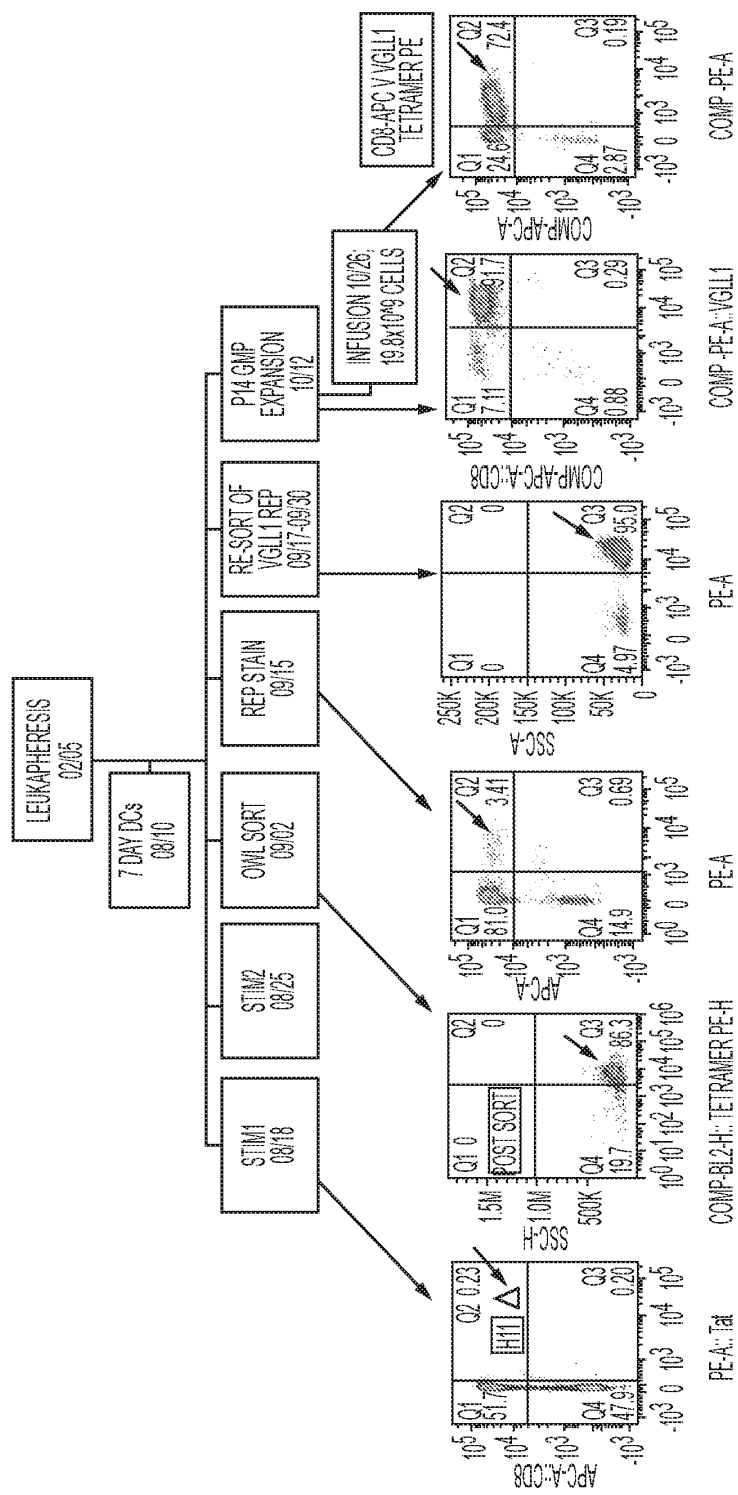


FIG. 4B

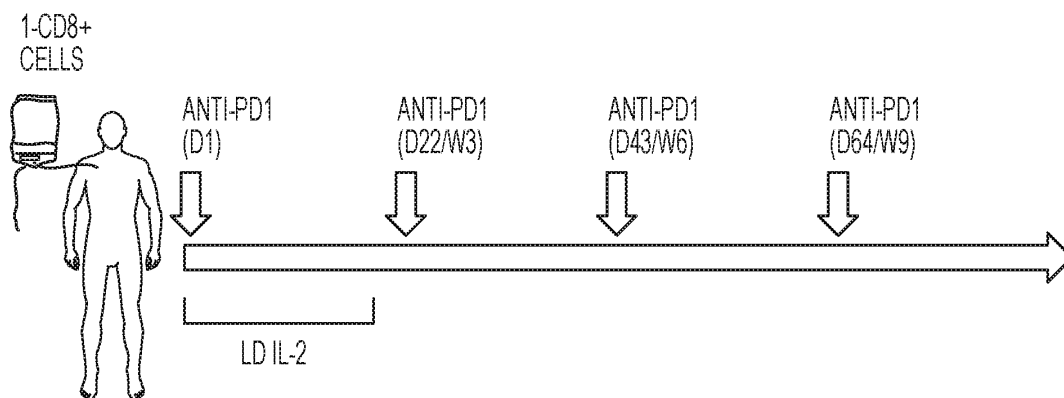


FIG. 4C

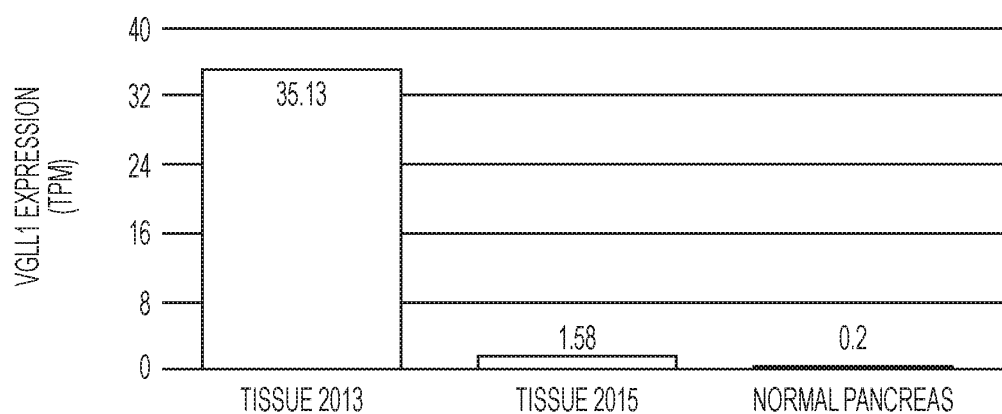


FIG. 4D

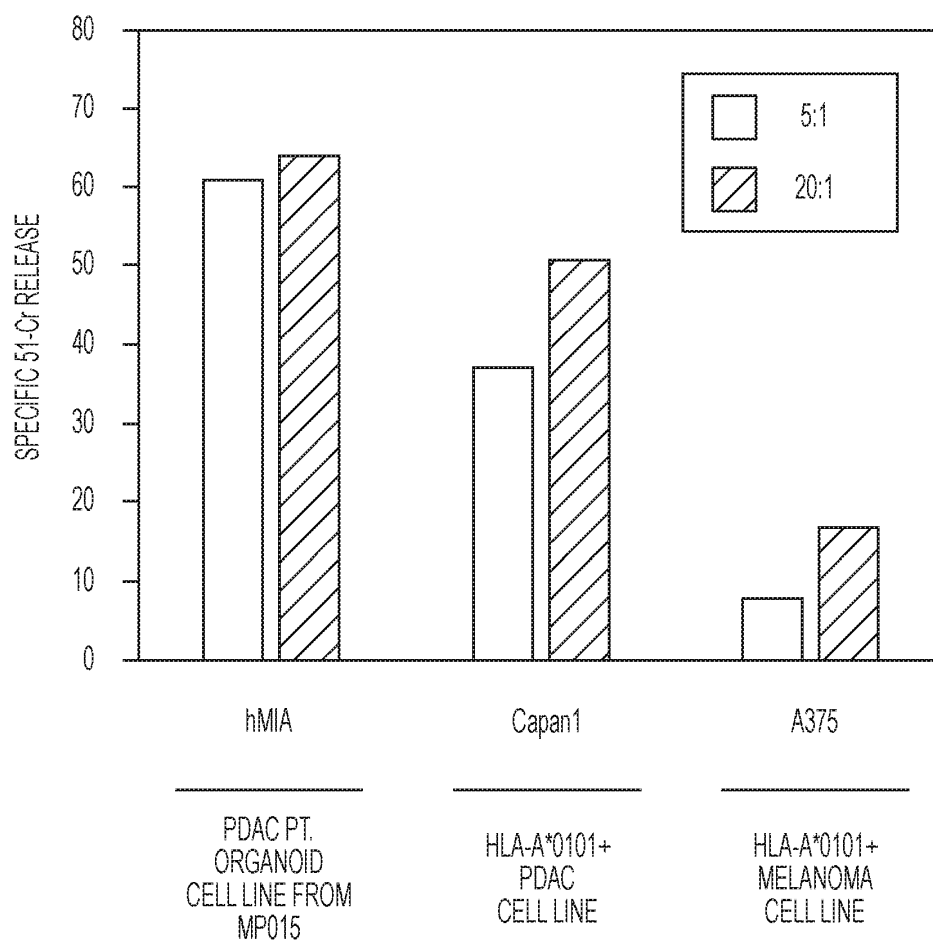


FIG. 5A

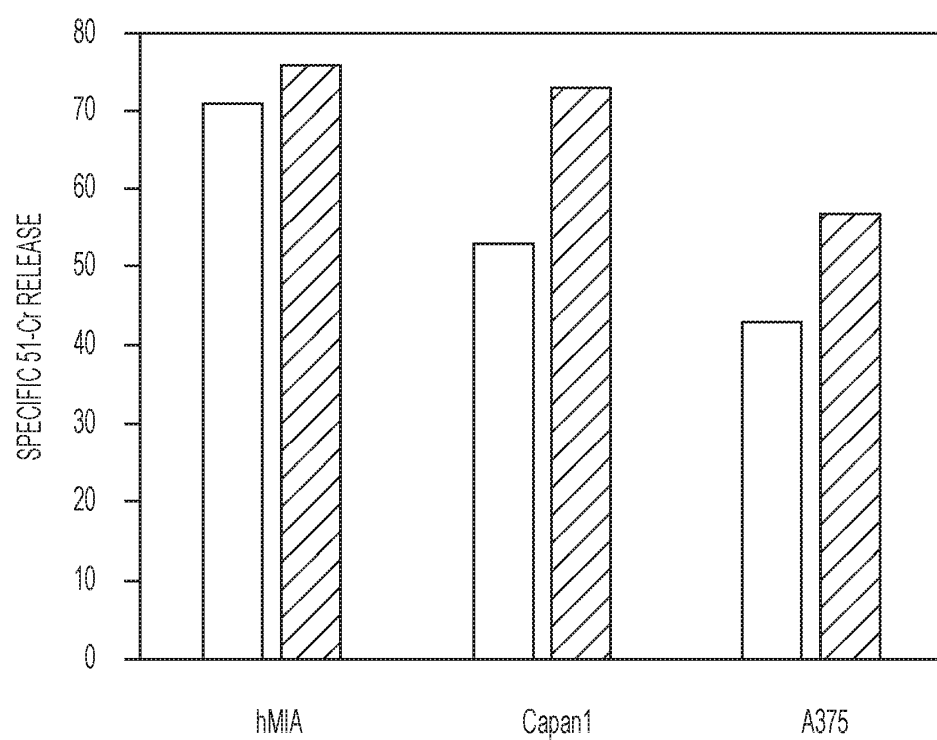


FIG. 5B

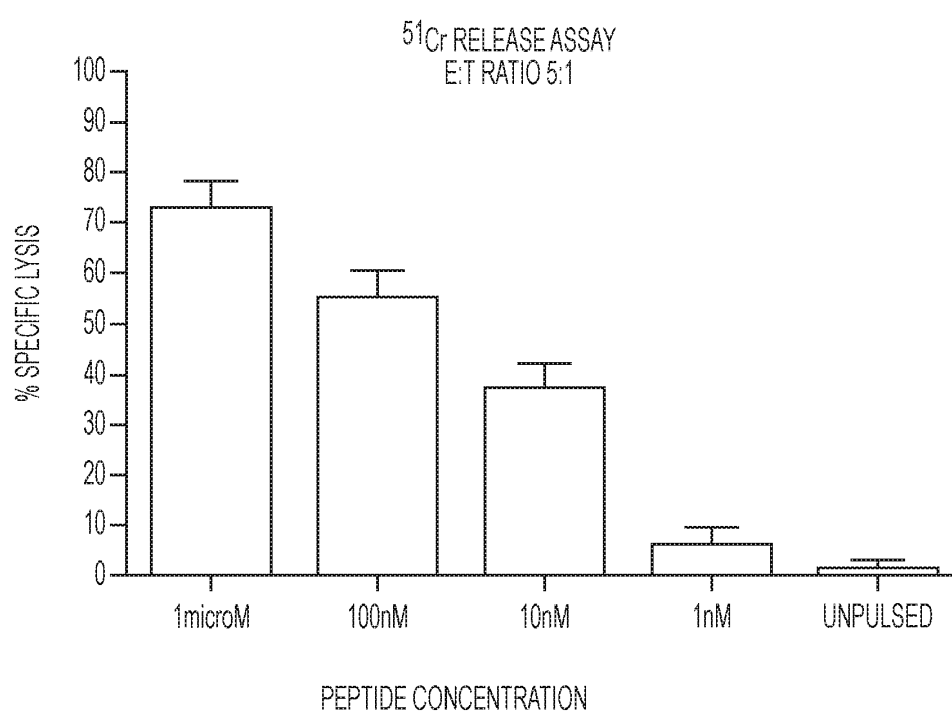


FIG. 6A

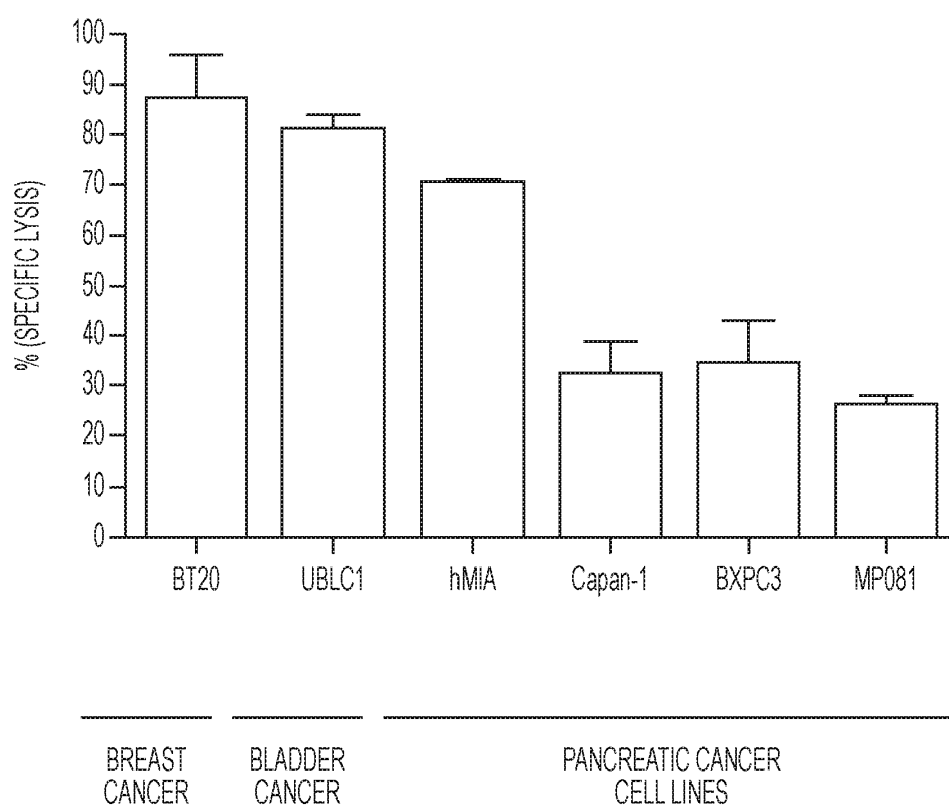


FIG. 6B

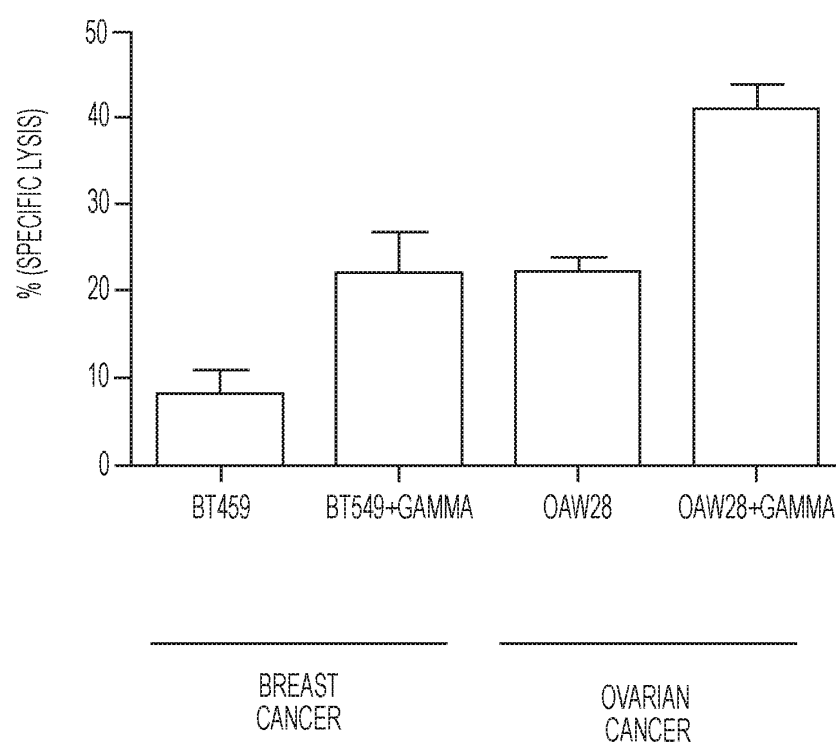


FIG. 6C

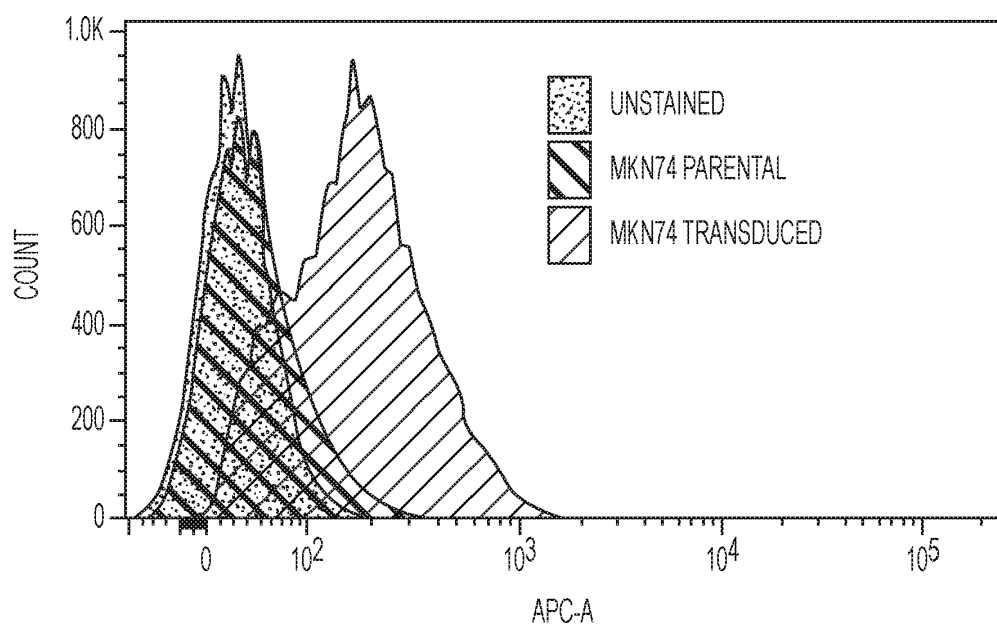


FIG. 7A

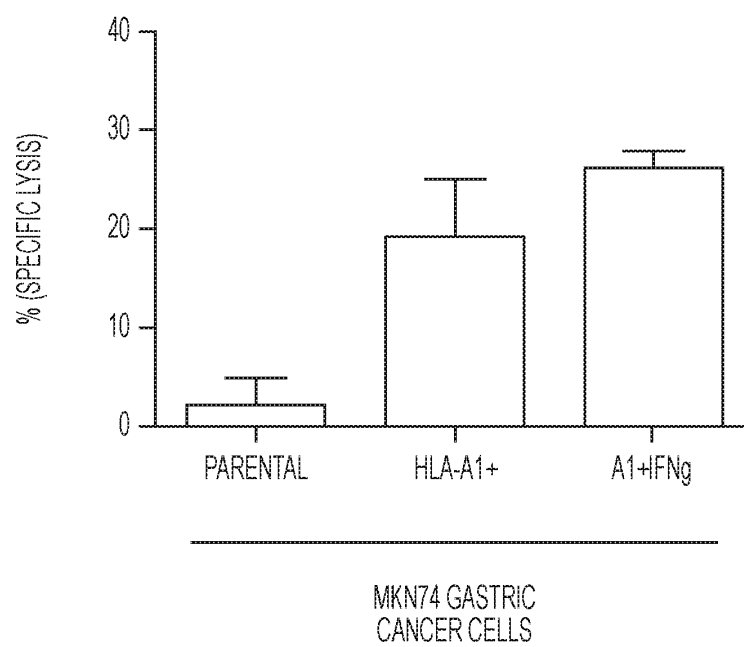


FIG. 7B