

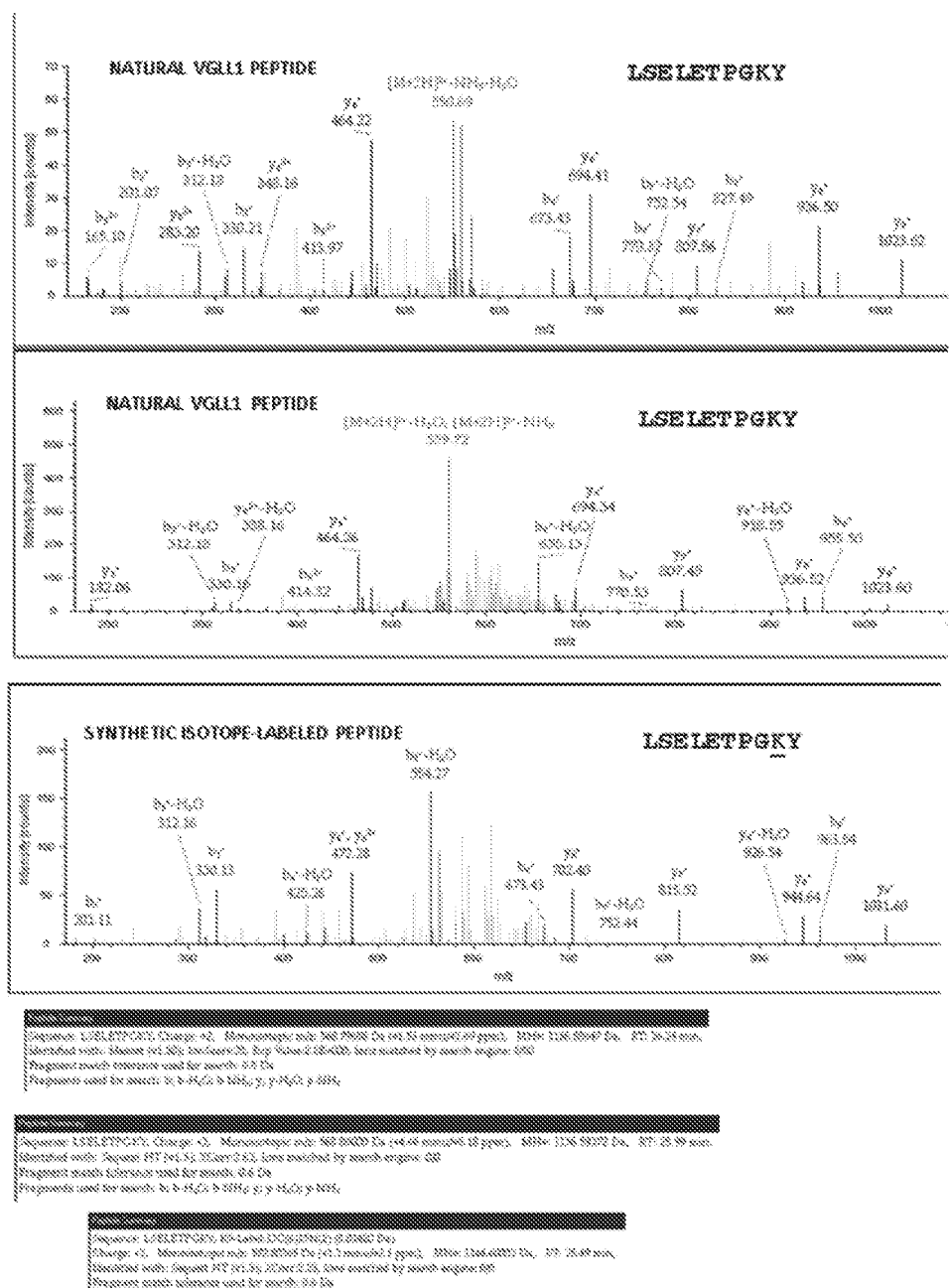


FIG. 1A

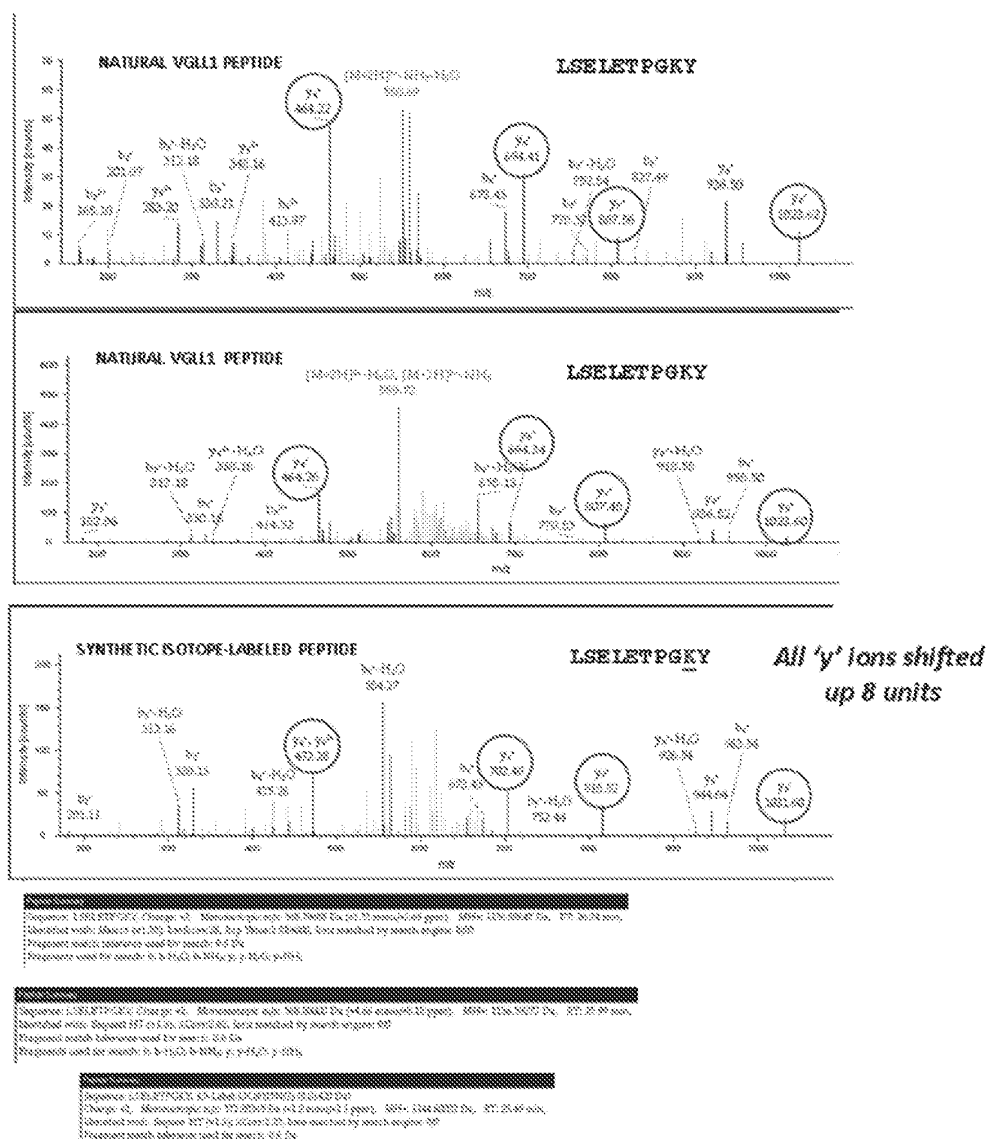
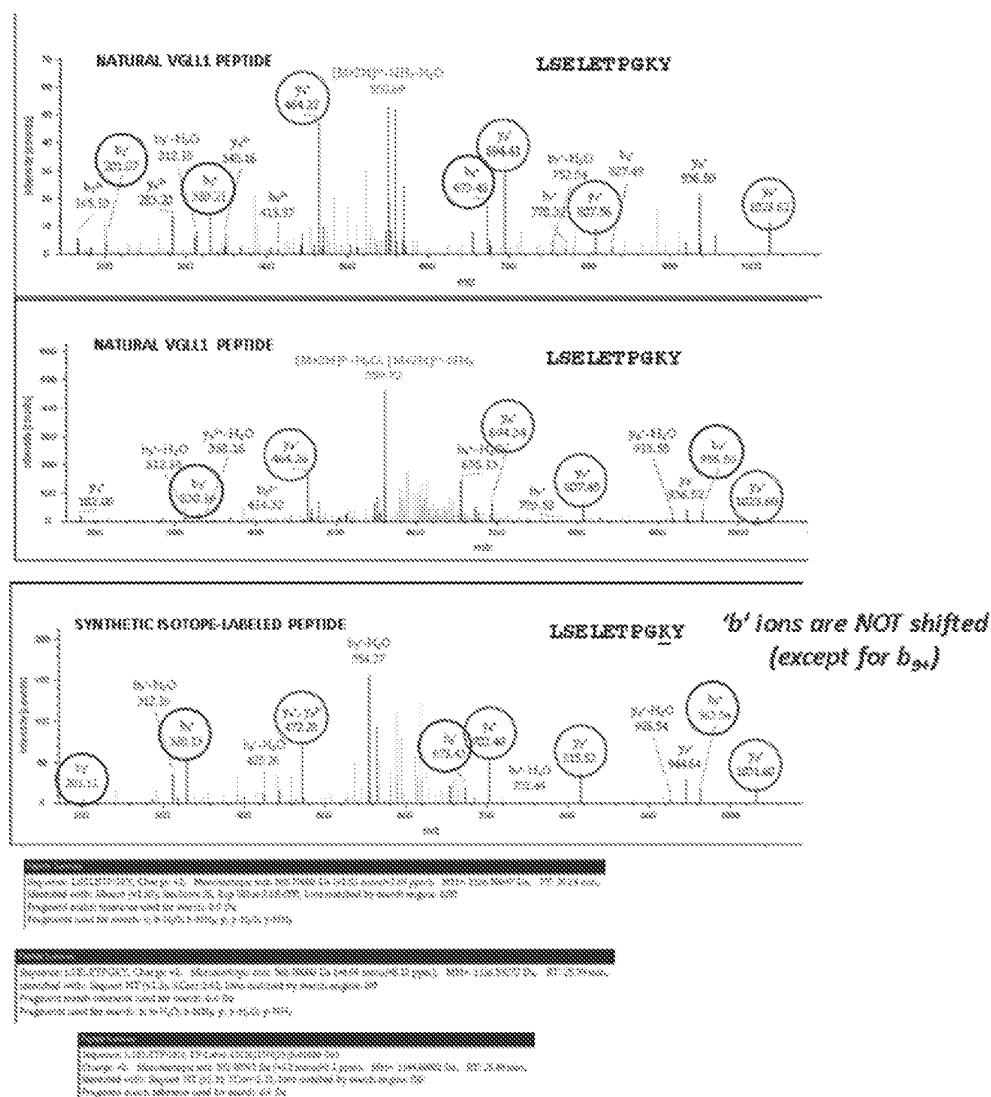


FIG. 1B



NATURAL VGLI1 PEPTIDE:

ISOTOPE-LABELED PEPTIDE:

LSELETPGKY

LSELETPGKY

**PREDICTED
MASSES
of 'b' ions:**

↑ Heavy lysine
(C¹³ + 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	963.5274
10	Y	

All are identical
except for 'b9',
which contains the
heavy lysine (K)

b ⁺	Seq.	#1
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
963.5274	K-Label 13	9
	Y	10



**PREDICTED
MASSES
of 'y' ions:**

All are shifted up by
8 units, except for 'y1',
which contains
no heavy lysine (K)

#2	Seq.	y ⁺
10	L	
9	S	1023.49935
8	E	936.46732
7	L	807.42472
6	E	684.34065
5	T	565.29805
4	P	454.25037
3	G	367.19760
2	K	310.17613
1	Y	182.08116

y ⁺	Seq.	#2
	L	10
1023.51355	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

'y' ions

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

FIG. 1D

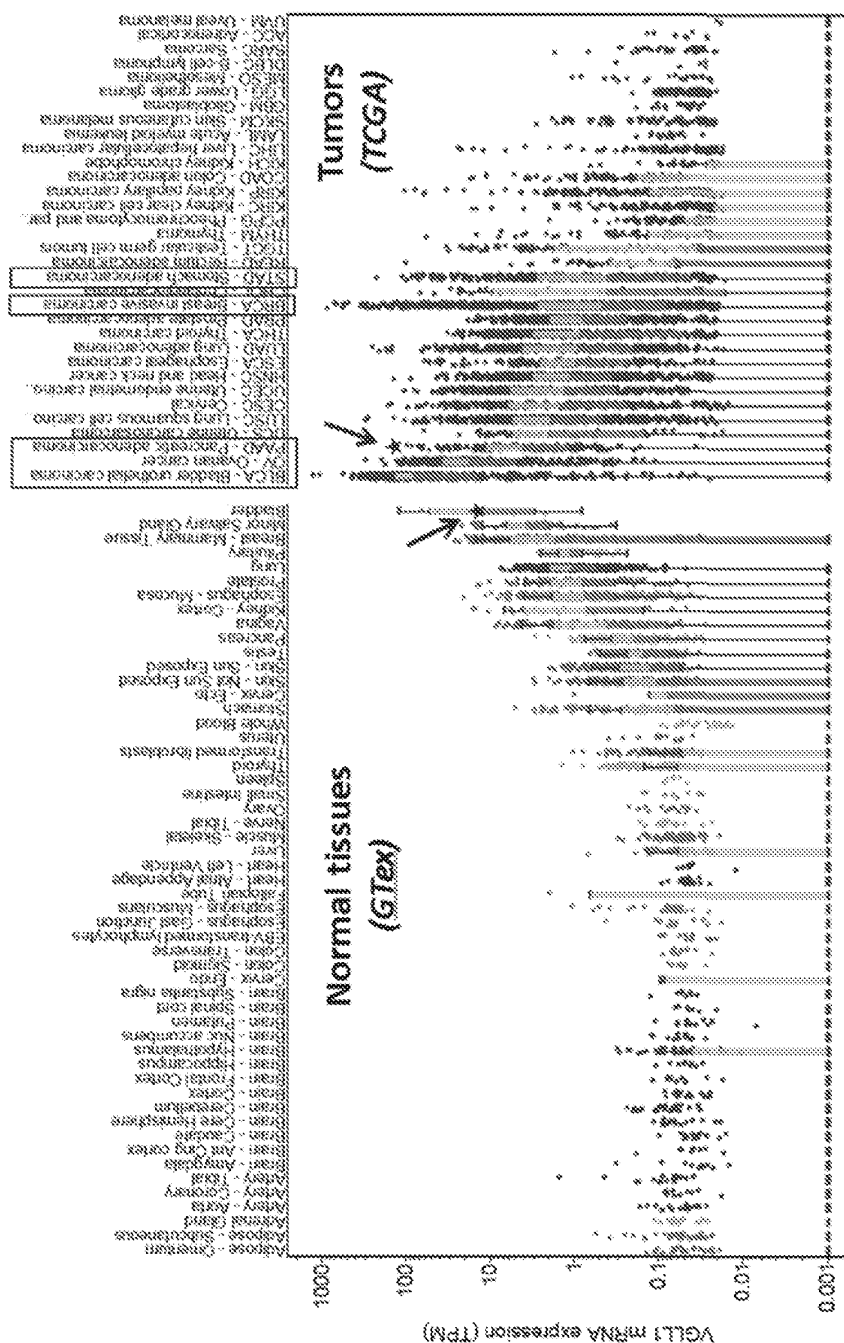


FIG. 2A

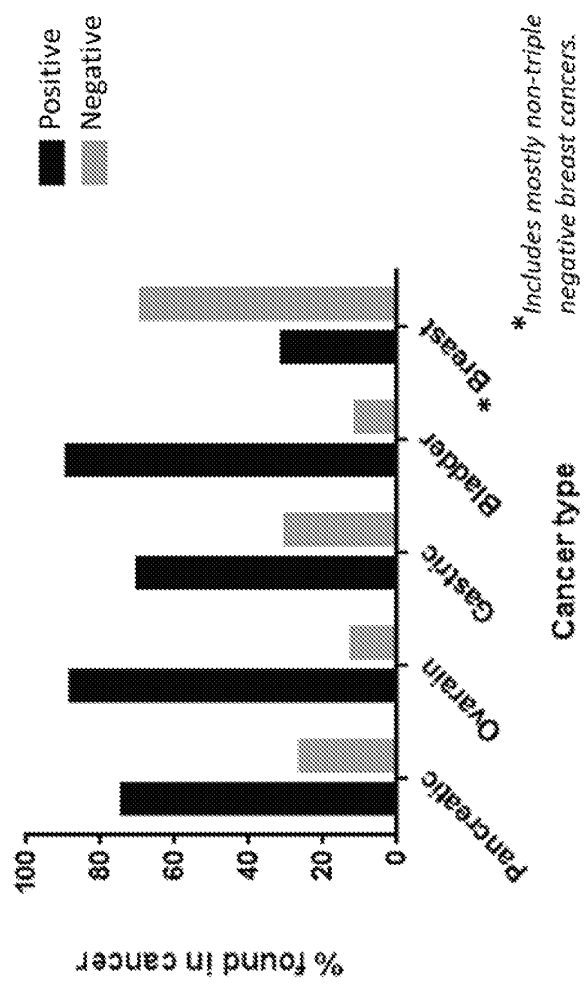


FIG. 2B

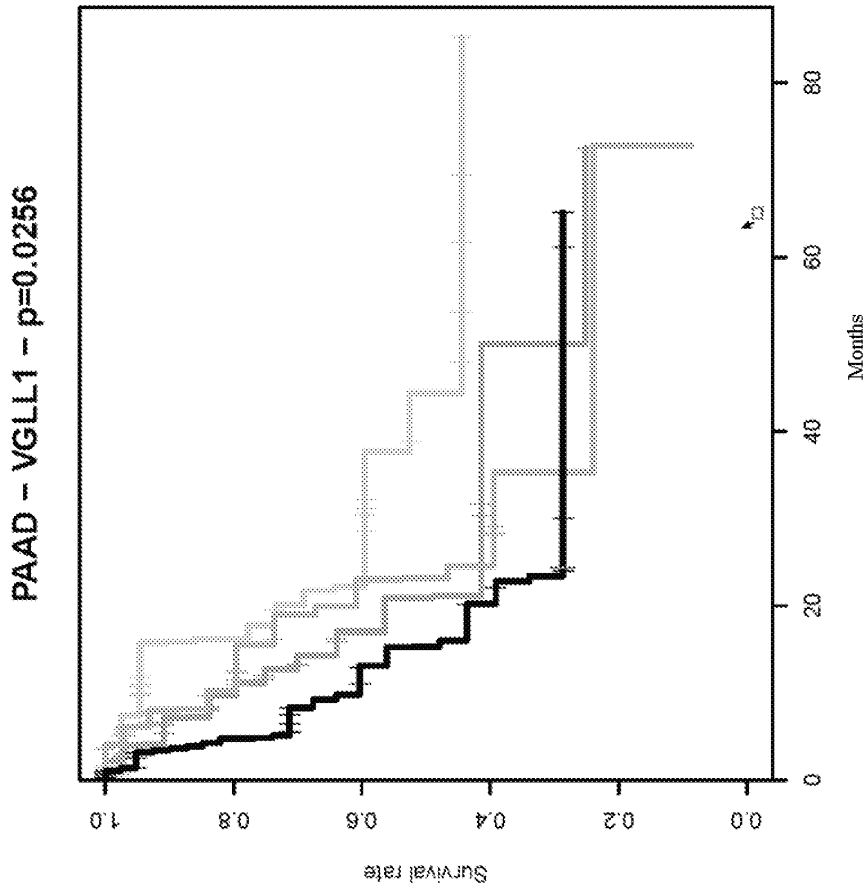


FIG. 3

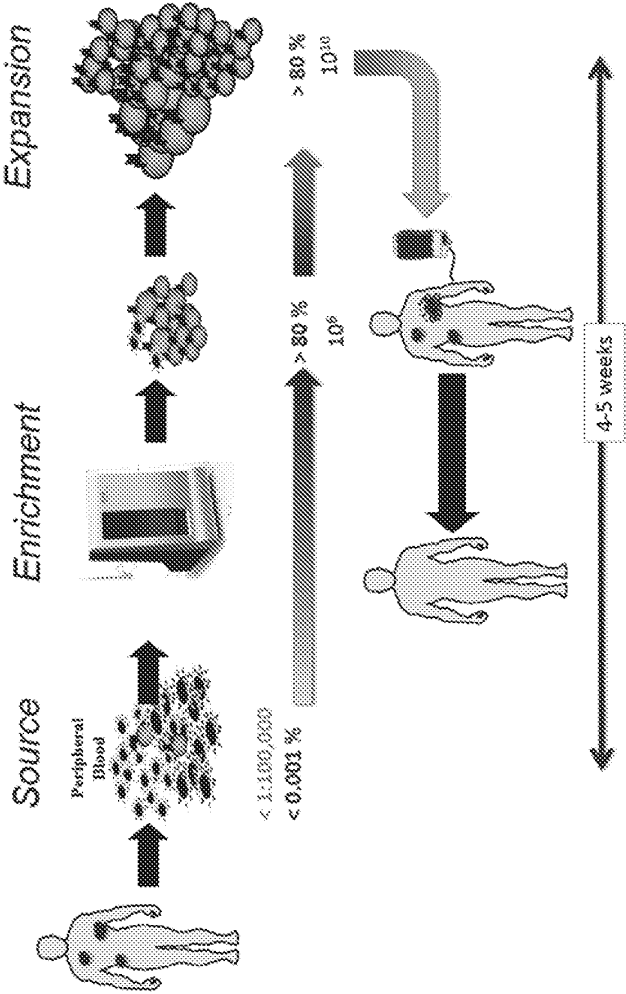


FIG. 4A

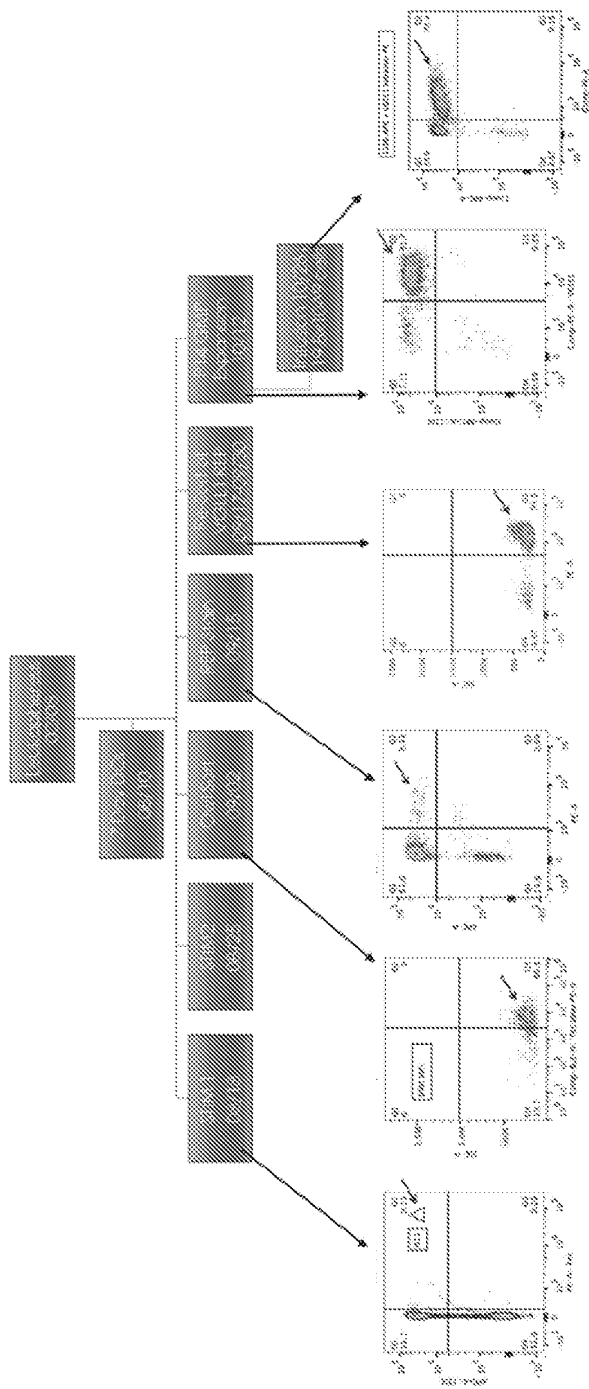


FIG. 4B

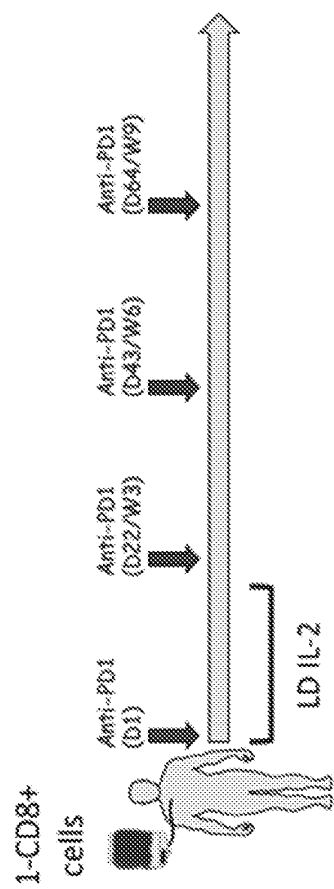


FIG. 4C

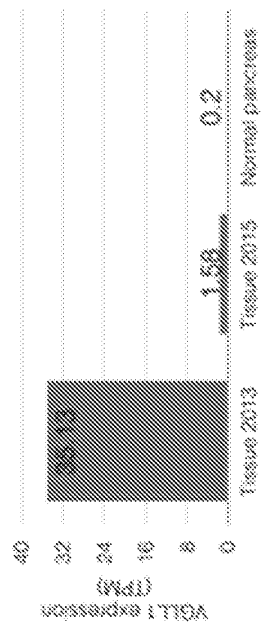


FIG. 4D

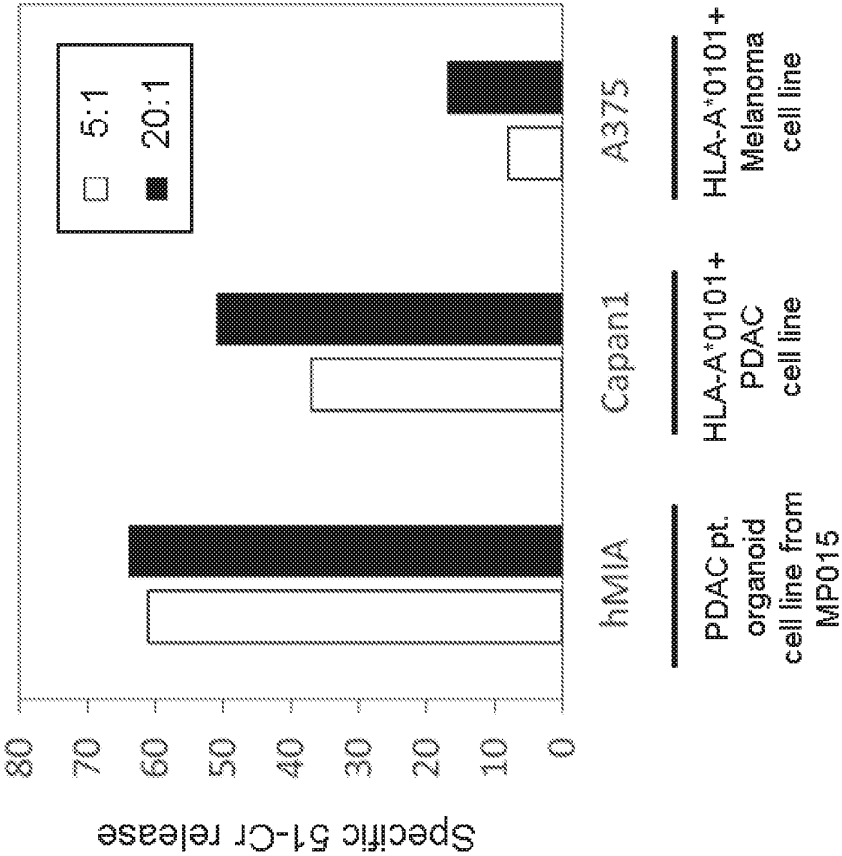


FIG. 5A

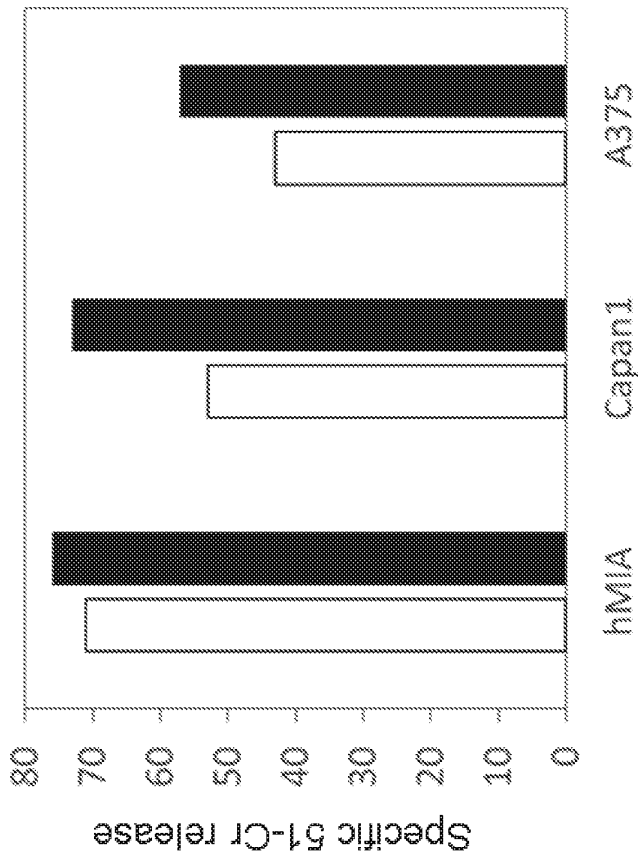


FIG. 5B

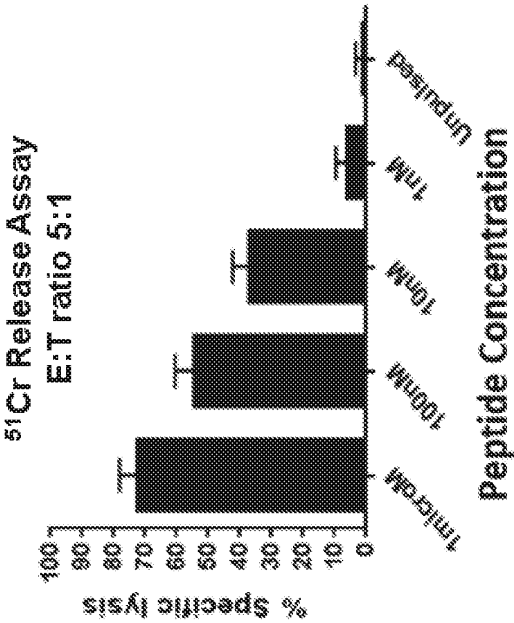


FIG. 6A

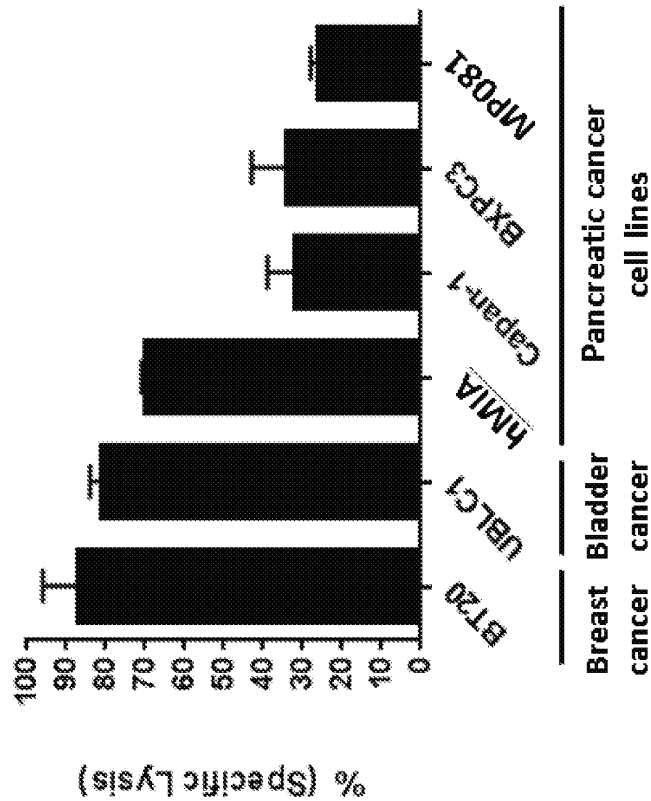


FIG. 6B

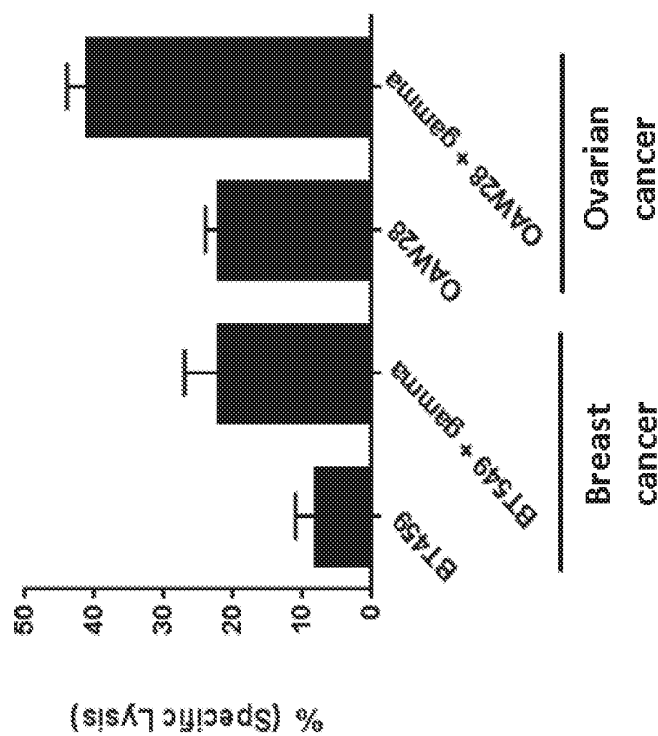


FIG. 6C

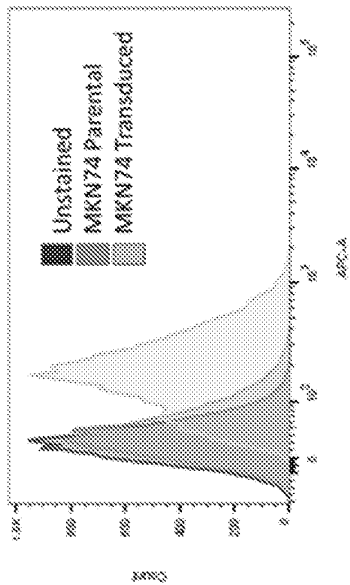


FIG. 7A

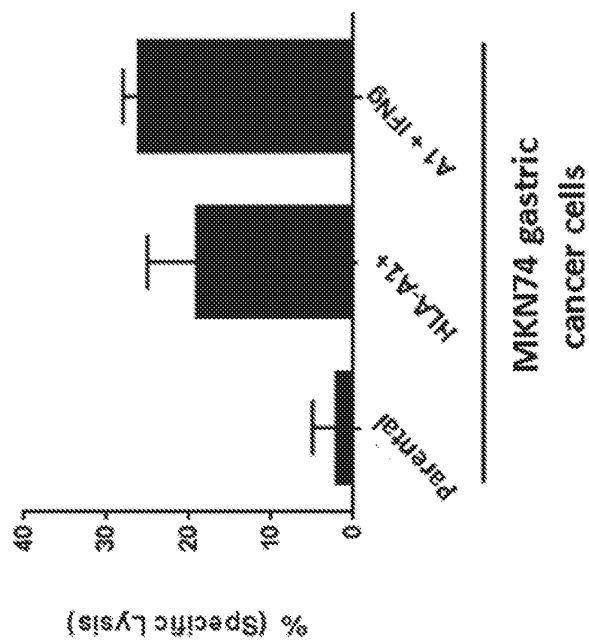


FIG. 7B