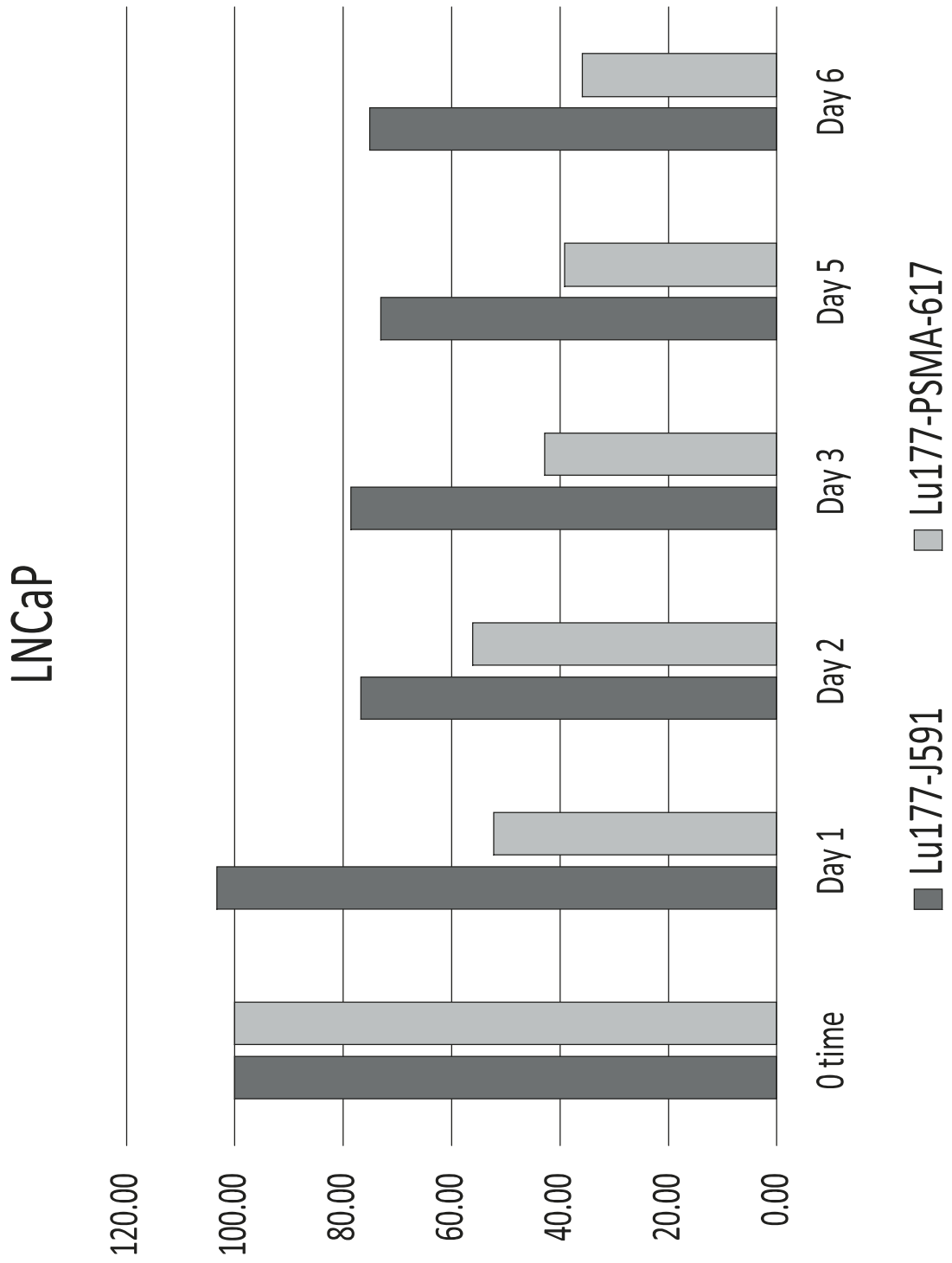

LNCaP
120.00
100.00
80.00
60.00
40.00
20.00
0.00
0 time
Day 1
Day 2
Day 3
Day 5
Day 6
Lu177-J591
Lu177-PSMA-617

FIG. 1A

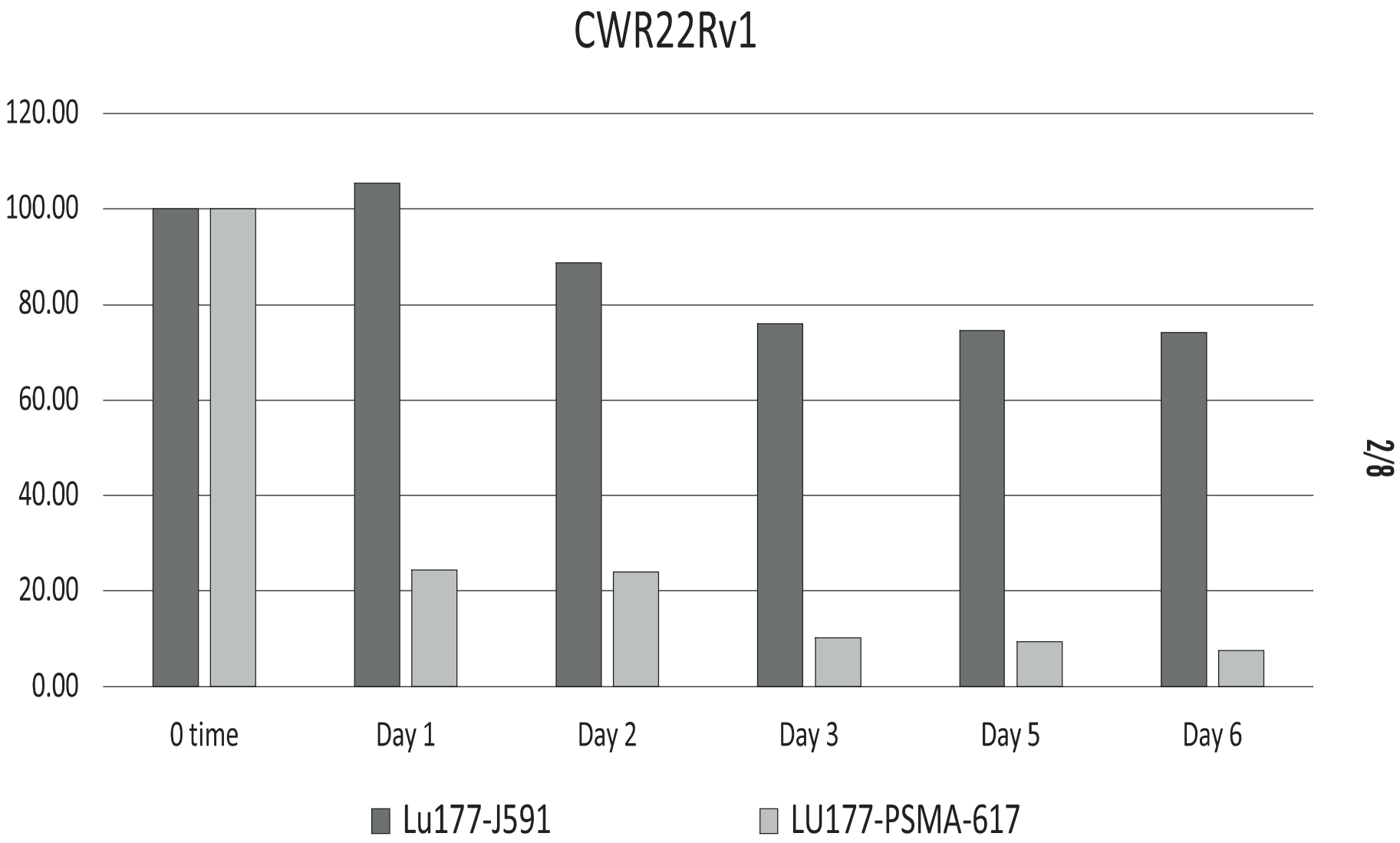

CWR22Rv1
120.00
100.00
80.00
60.00
40.00
20.00
0.00
0 time
Day 1
Day 2
Day 3
Day 5
Day 6
Lu177-J591
LU177-PSMA-617

FIG. 1B

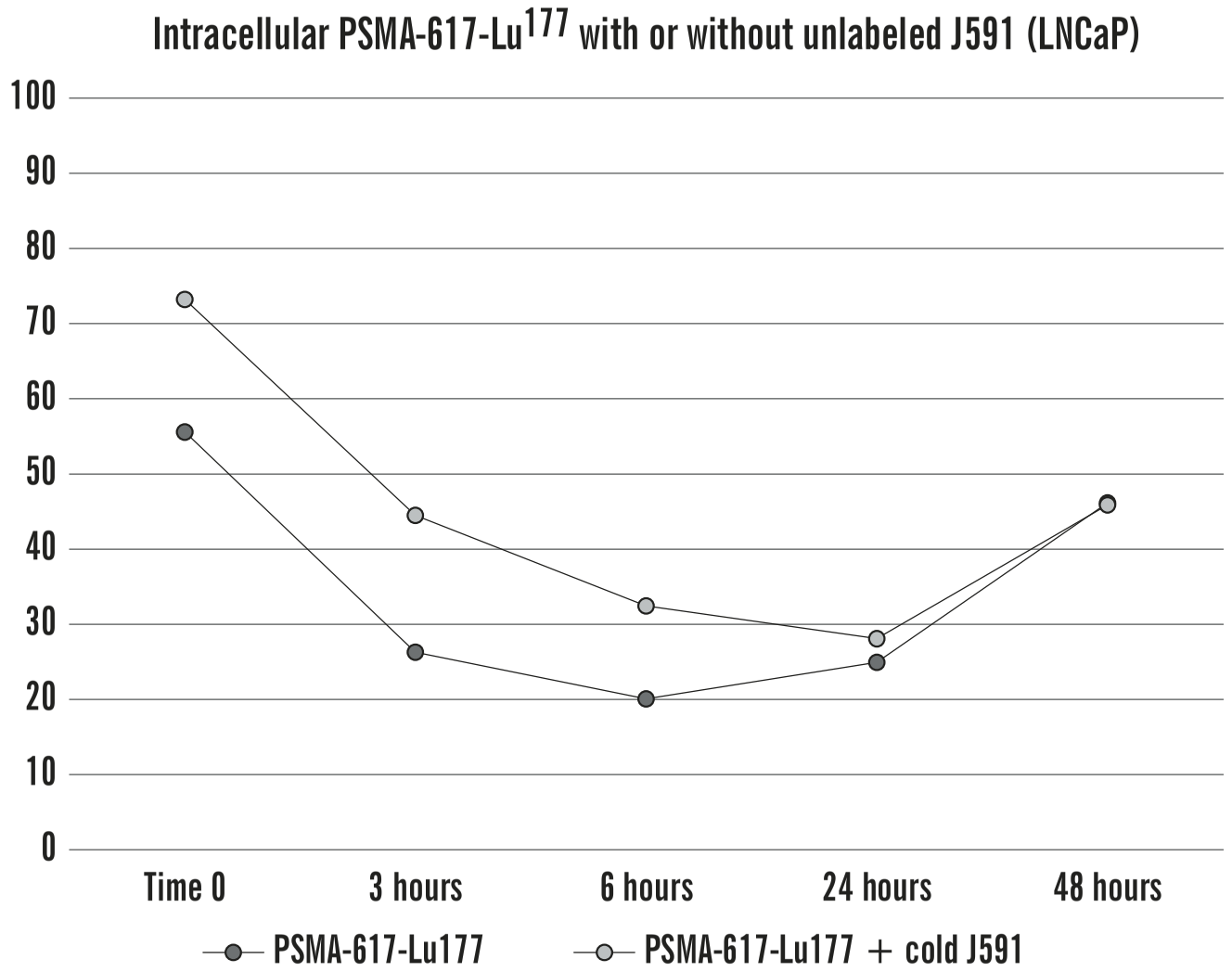

Intracellular PSMA-617-Lu177 with or without unlabeled J591 (LNCaP)
100
90
80
70
60
50
40
30
20
10
0
Time 0
3 hours
6 hours
24 hours
48 hours
PSMA-617-Lu177
PSMA-617-Lu177 + cold J591

FIG. 2

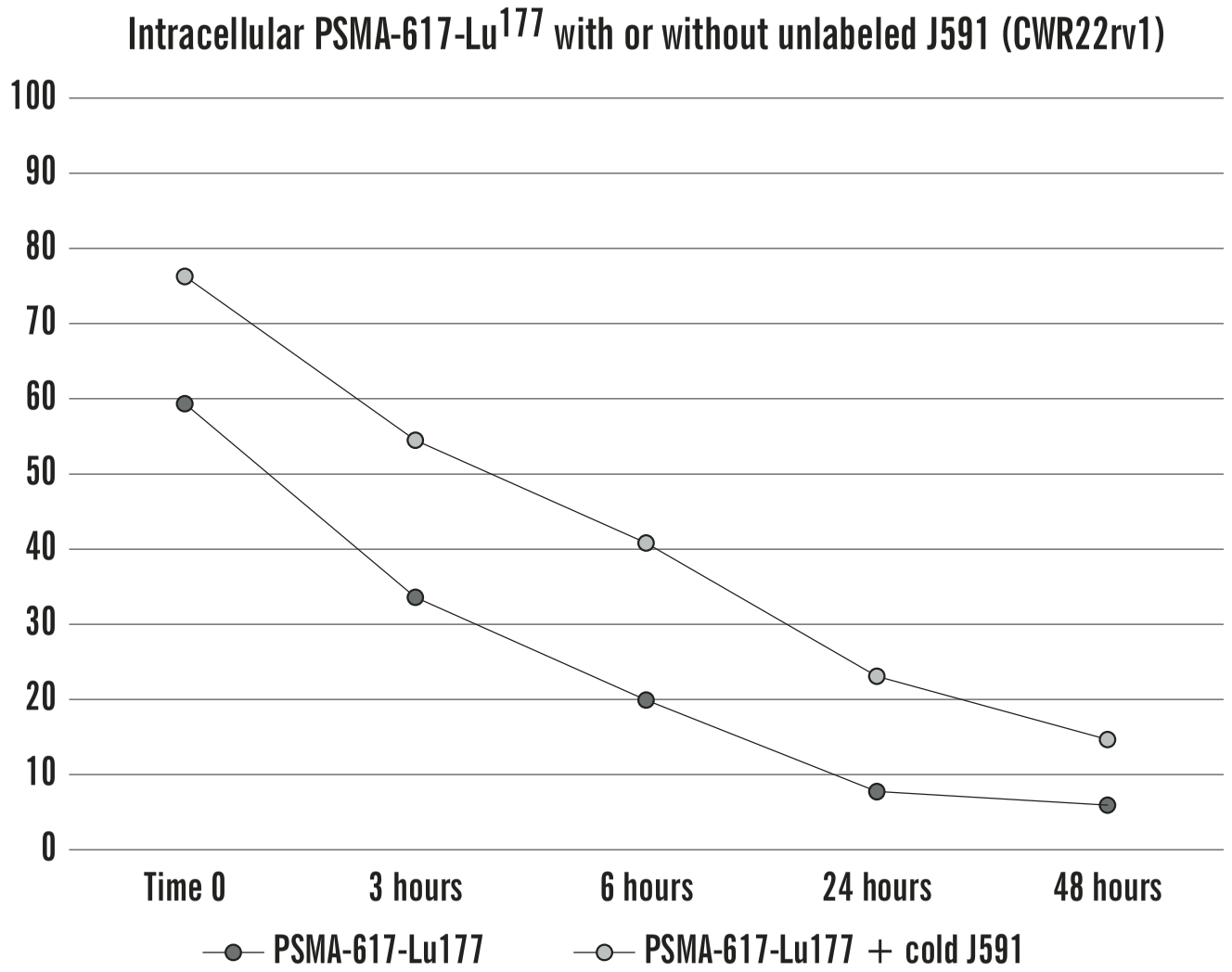
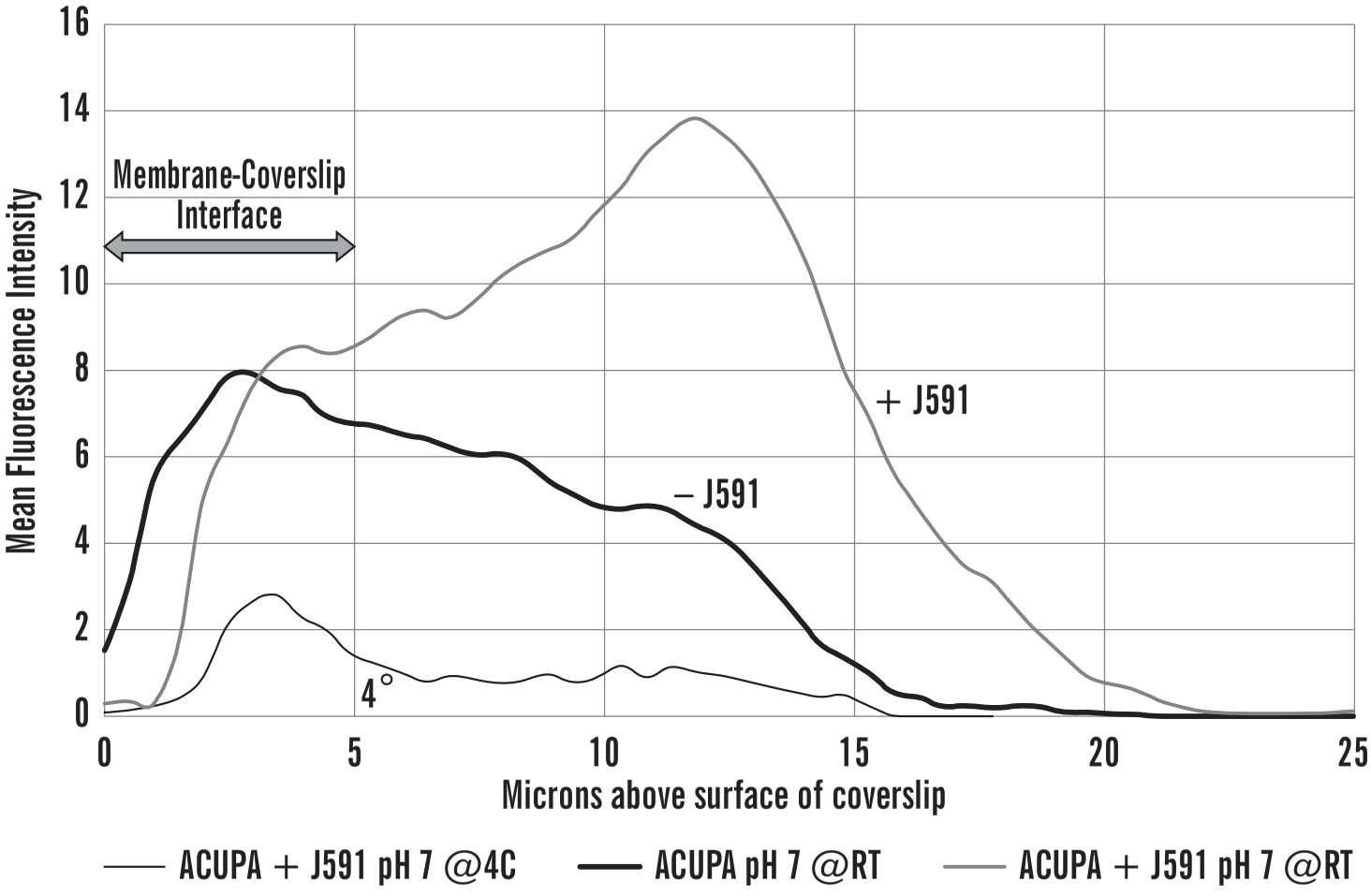

Intracellular PSMA-617-Lu177 with or without unlabeled J591 (CWR22rv1)
100
90
80
70
60
50
40
30
20
10
0
Time 0
3 hours
6 hours
24 hours
48 hours
PSMA-617-Lu177
PSMA-617-Lu177 + cold J591

FIG. 2 (cont.)



ACUPA = 2-(3-((*S*)-5-amino-1-carboxypentyl)ureido)pentanedioic acid

Confocal microscopy analysis.

60 min incubation, 20°C

FIG. 3

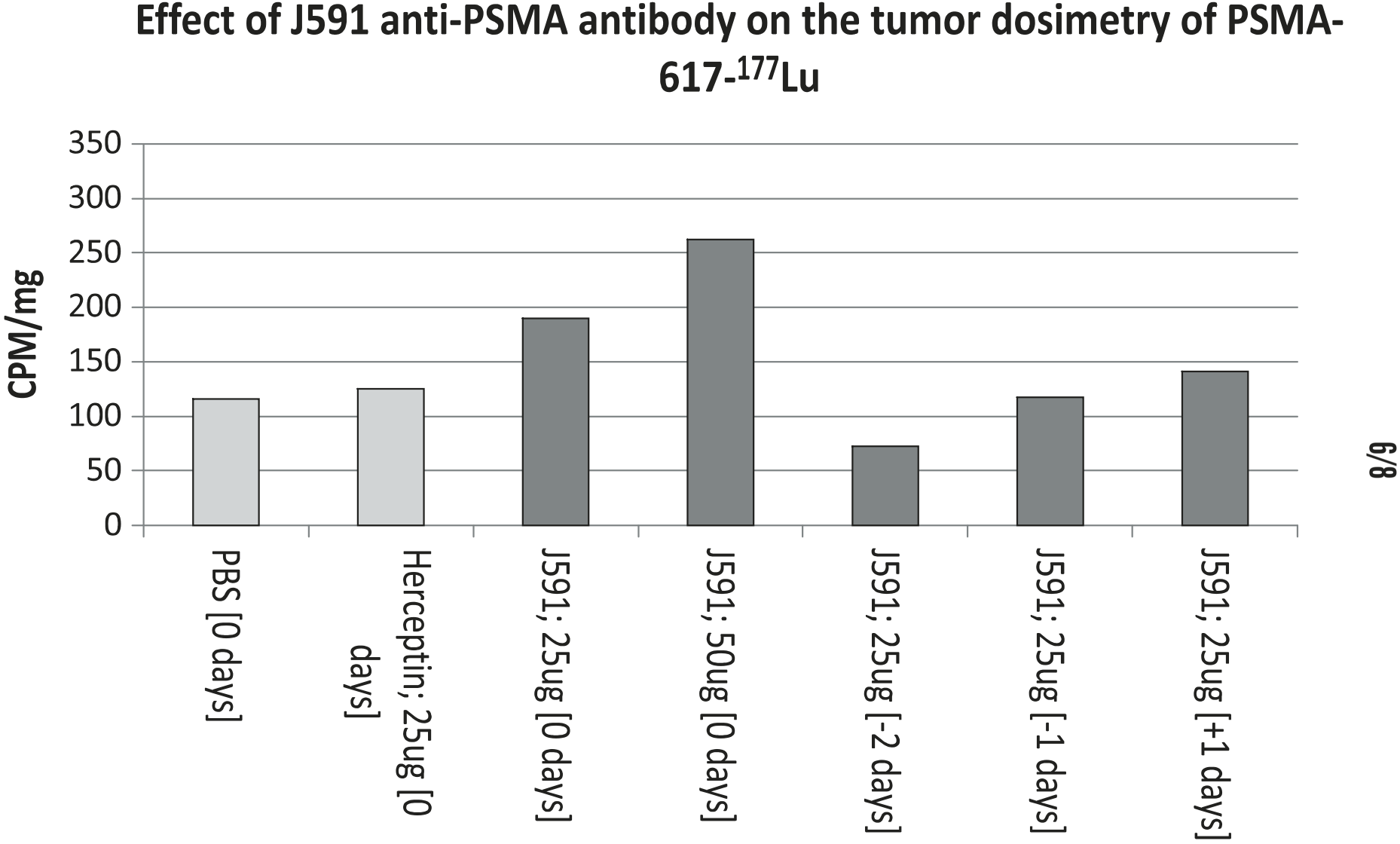

Effect of J591 anti-PSMA antibody on the tumor dosimetry of PSMA-617-177Lu
CPM/mg
350
300
250
200
150
100
50
0
PBS [0 days]
Herceptin; 25ug [0 days]
J591; 25ug [0 days]
J591; 50ug [0 days]
J591; 25ug [-2 days]
J591; 25ug [-1 days]
J591; 25ug [+1 days]

FIG. 4

Sample	Agent	tumor weight (mg)	Counts	Counts/mg	Average
1	PSMA-I&T-Lu177 only	122	844247	6920	**4956.27**
2		200	776360	3882	
3		244	761077	3119	
4		190	742084	3906	
5		146	710720	4868	
6		185	957238	5174	
7		172	1173890	6825	
8	PSMA-I&T-Lu177 + naked J591	161	1602767	9955	**6760.28**
9		253	2060994	8146	
10		132	458820	3476	
11		143	949397	6639	
12		187	1014446	5425	
13		183	756232	4132	
14		161	1537282	9548	
15	PSMA-I&T-Lu177	240	870294	3626	**4967.06**
16	+ naked Herceptin	95	432091	4548	
17		196	1457631	7437	
18		204	1009230	4947	
19		132	773616	5861	
20		235	1242708	5288	
21		179	548085	3062	

FIG. 5

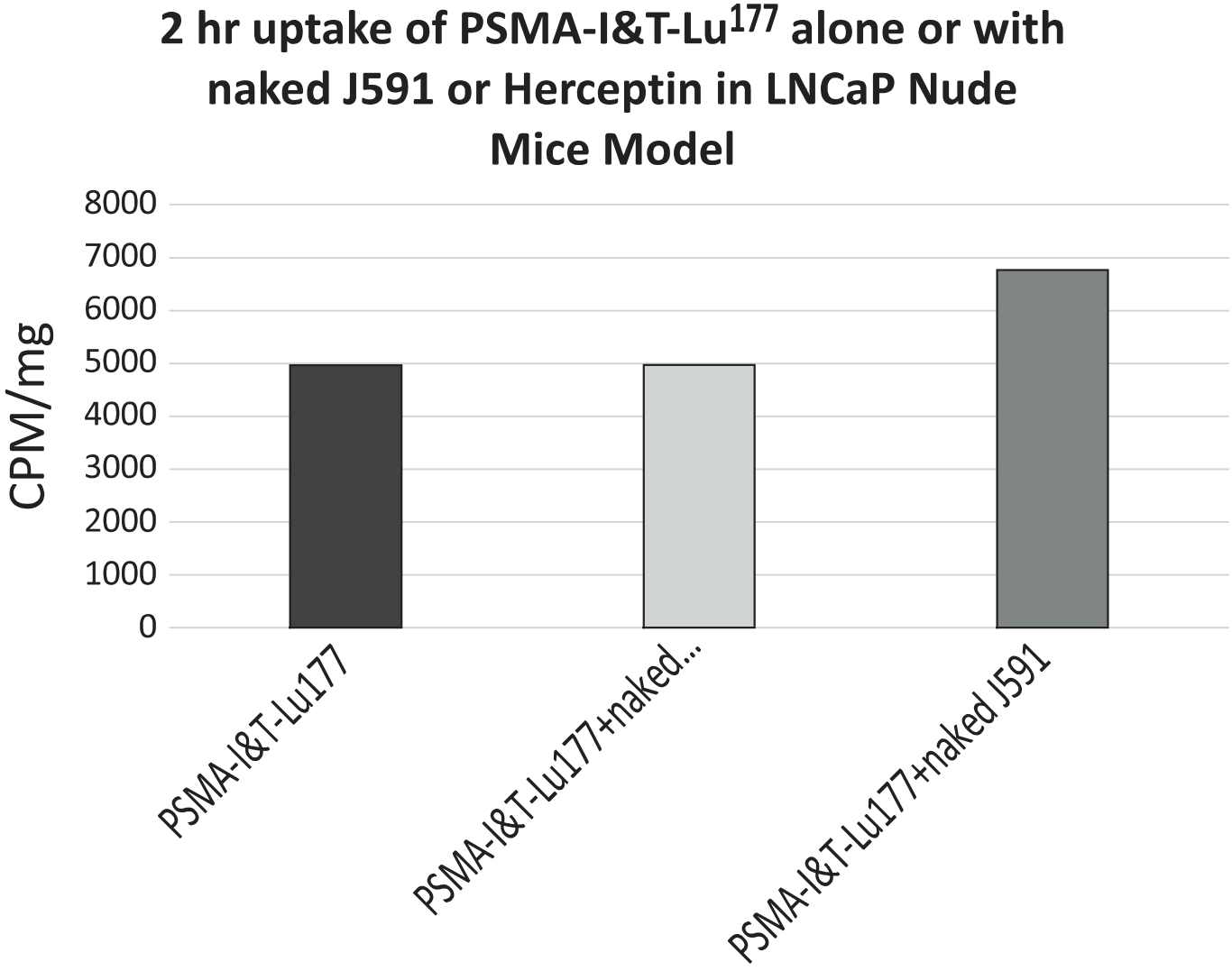

2 hr uptake of PSMA-I&T-Lu177 alone or with naked J591 or Herceptin in LNCaP Nude Mice Model
CPM/mg
8000
7000
6000
5000
4000
3000
2000
1000
0
PSMA-I&T-Lu177
PSMA-I&T-Lu177+naked...
PSMA-I&T-Lu177+naked J591

FIG. 5 (cont.)