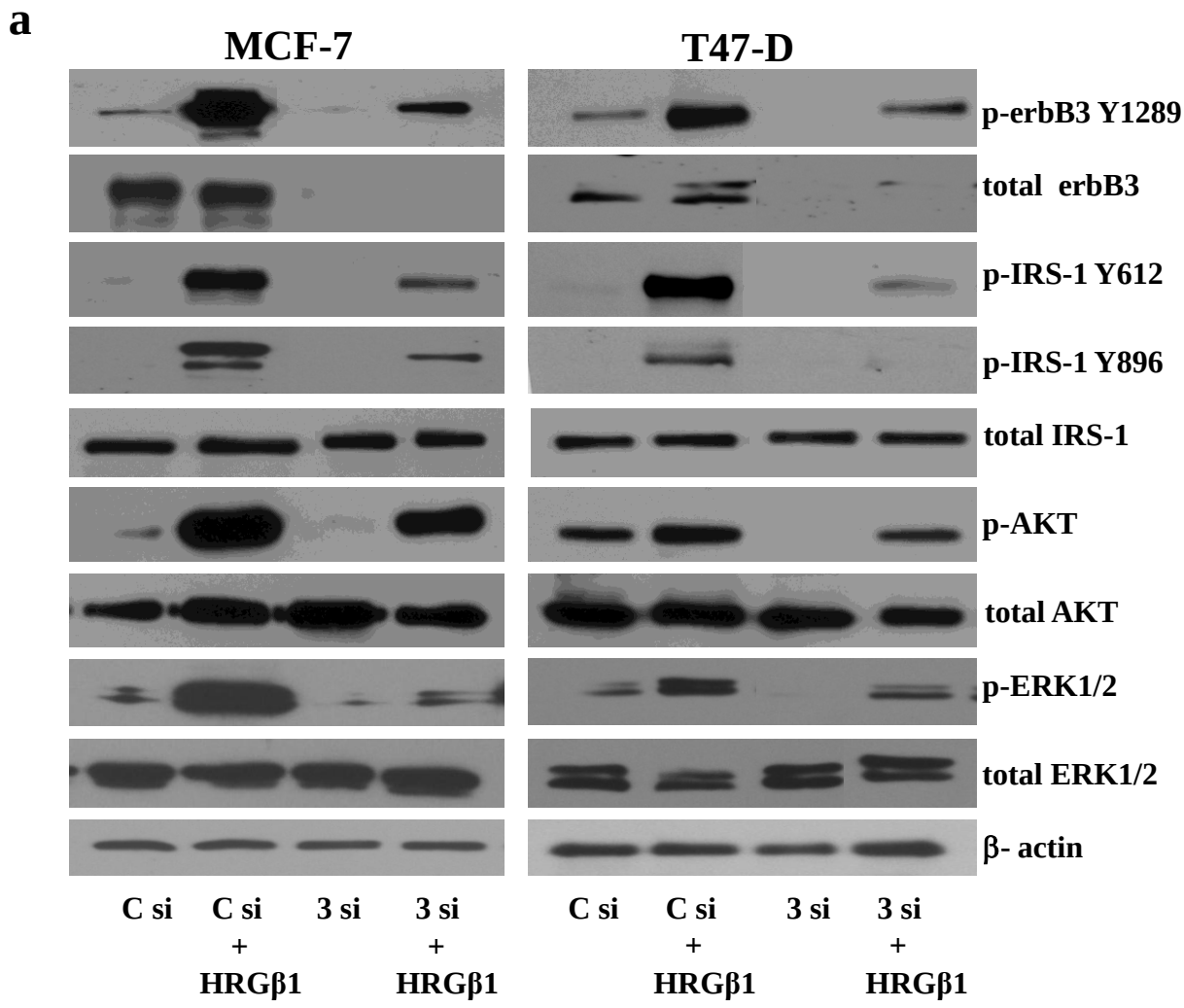
a
MCF-7
T47-D
p-erbB3 Y1289
total erbB3
p-IRS-1 Y612
p-IRS-1 Y896
total IRS-1
p-AKT
total AKT
p-ERK1/2
total ERK1/2
β- actin
C si
C si + HRGβ1
3 si
3 si + HRGβ1
b
IRS-1 Y612
IRS-1 Y896
arbitrary optical densitometry units
120
100
80
60
40
20
0
*
C si
3 si
MCF-7
c
IRS-1 Y612
IRS-1 Y896
T47D