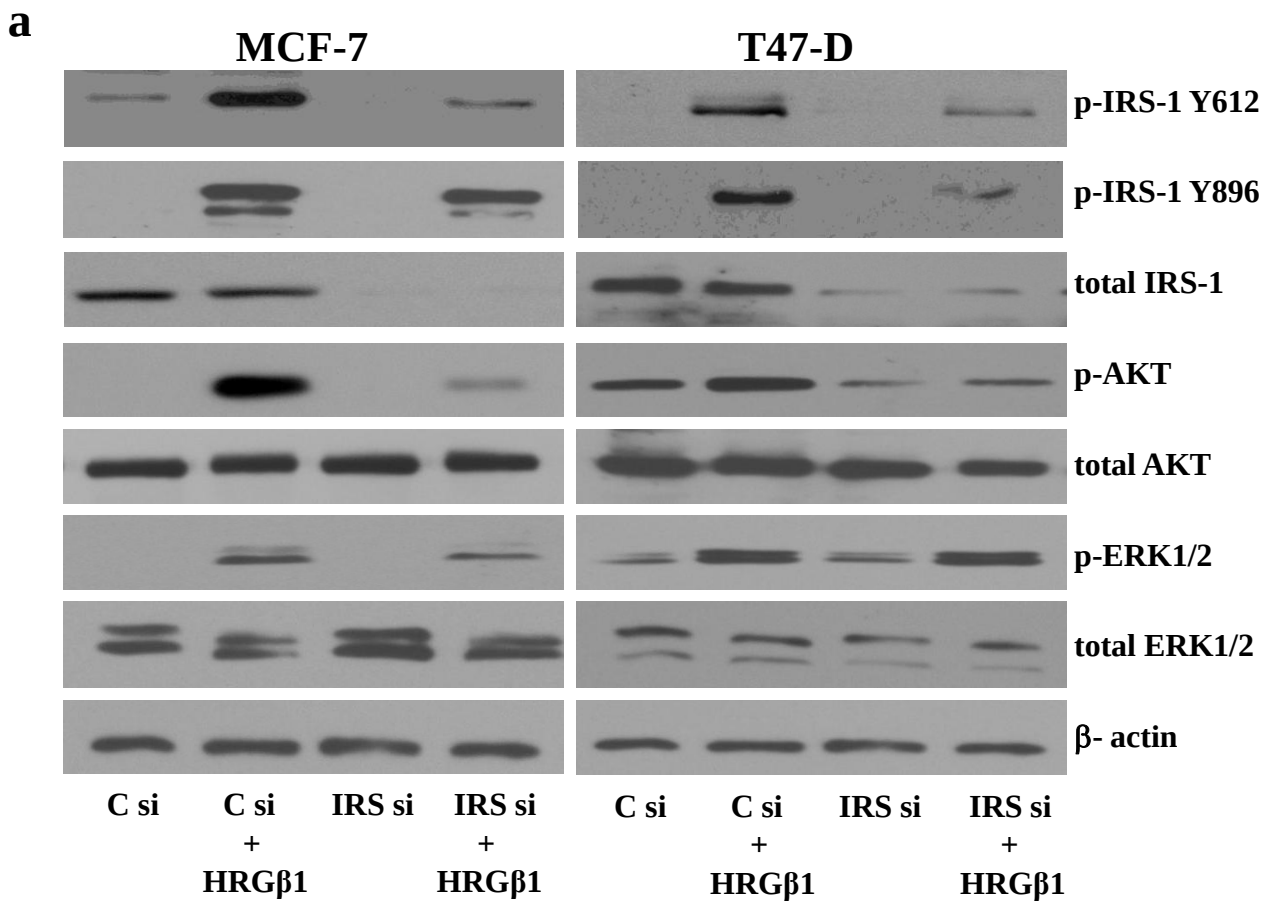
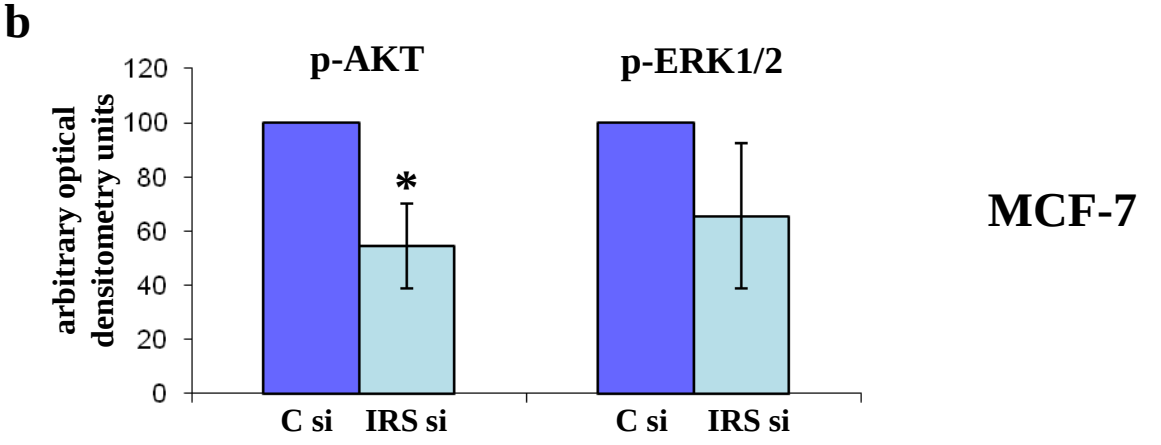
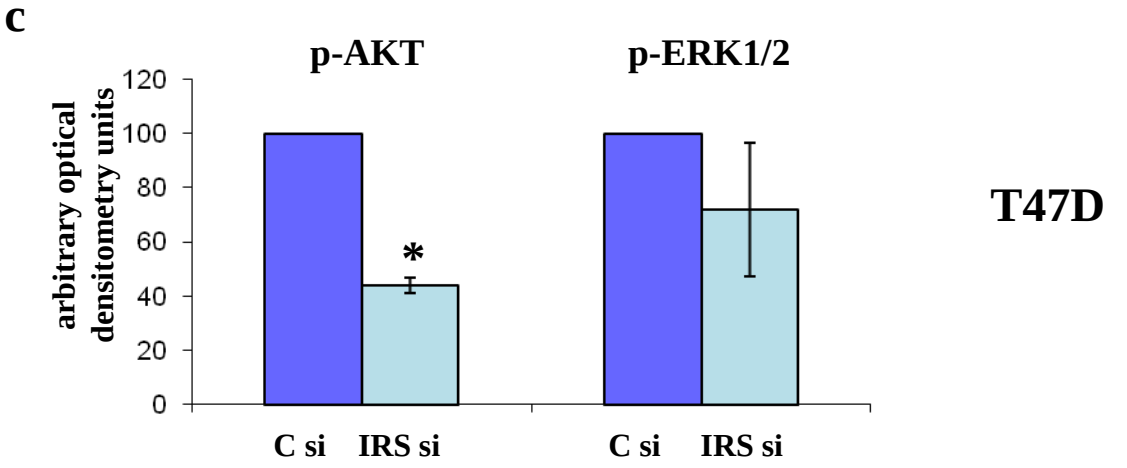

a
MCF-7
T47-D
p-IRS-1 Y612
p-IRS-1 Y896
total IRS-1
p-AKT
total AKT
p-ERK1/2
total ERK1/2
β- actin
C si
C si + HRGβ1
IRS si
IRS si + HRGβ1
C si
C si + HRGβ1
IRS si
IRS si + HRGβ1


b
p-AKT
p-ERK1/2
arbitrary optical densitometry units
120
100
80
60
40
20
0
*
C si
IRS si
C si
IRS si
MCF-7


c
p-AKT
p-ERK1/2
arbitrary optical densitometry units
120
100
80
60
40
20
0
*
C si
IRS si
C si
IRS si
T47D