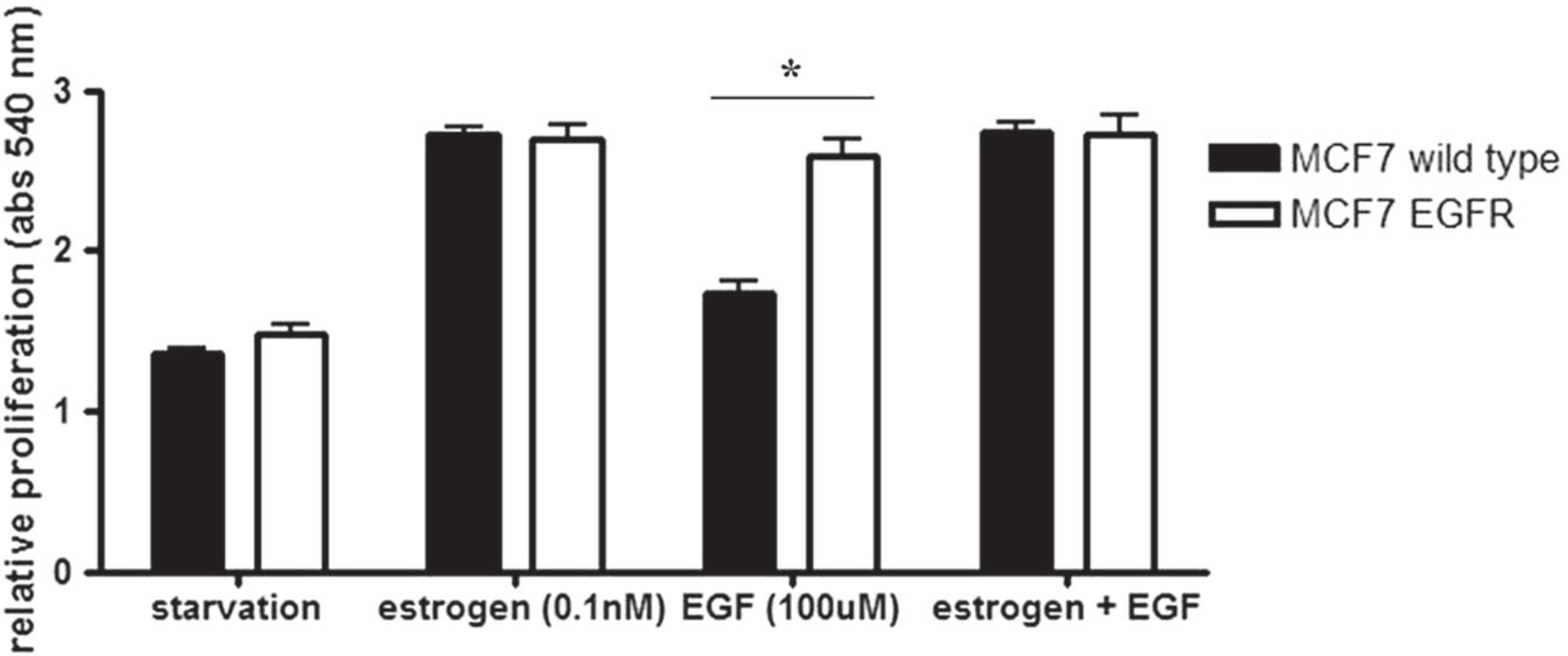
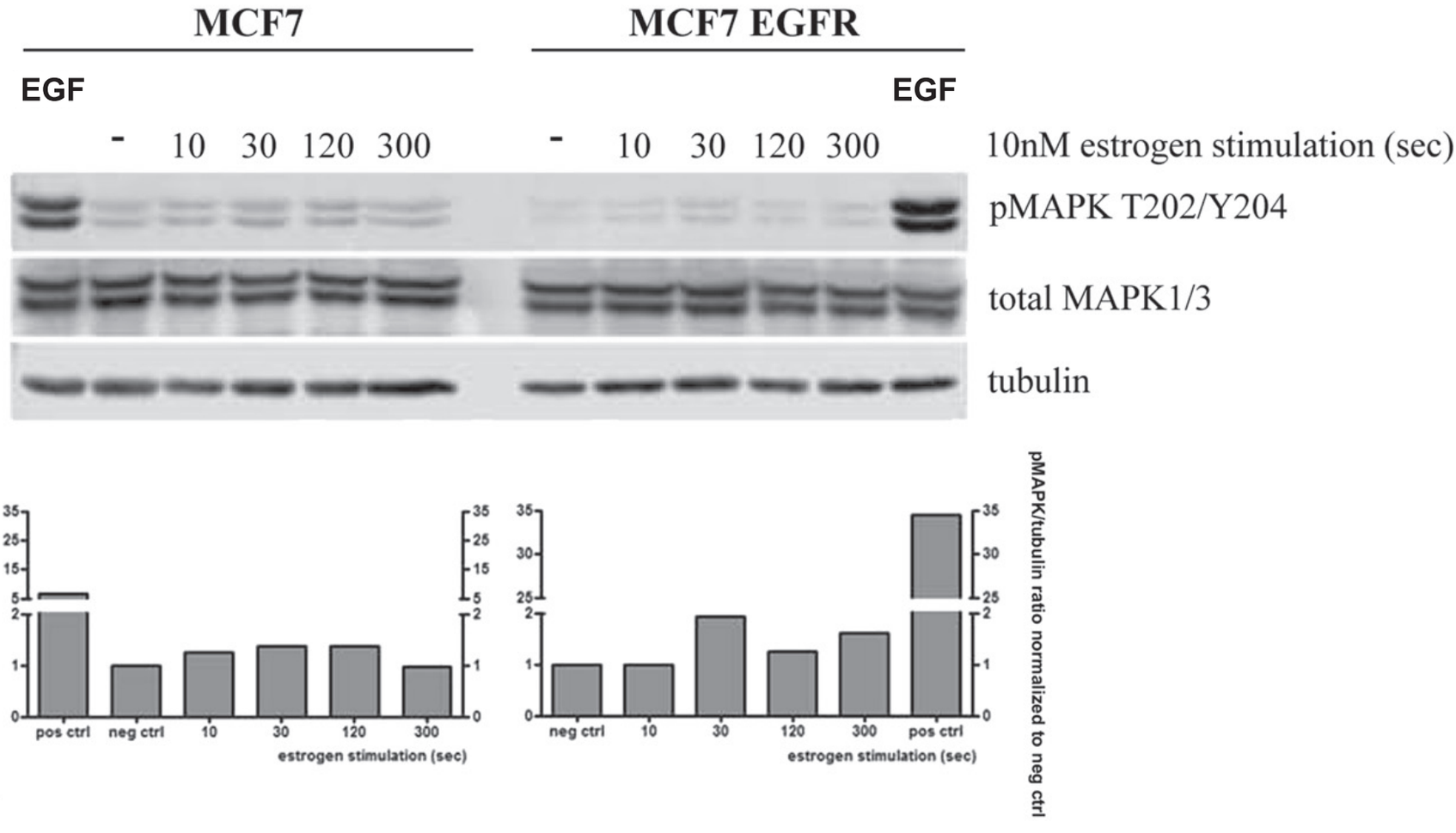
A


relative proliferation (abs 540 nm)
0
1
2
3
*
starvation
estrogen (0.1nM)
EGF (100uM)
estrogen + EGF
MCF7 wild type
MCF7 EGFR

B


MCF7
MCF7 EGFR
EGF
EGF
- 10 30 120 300
- 10 30 120 300
10nM estrogen stimulation (sec)
pMAPK T202/Y204
total MAPK1/3
tubulin
pMAPK/tubulin ratio normalized to neg ctrl
pos ctrl
neg ctrl
10
30
120
300
estrogen stimulation (sec)
neg ctrl
10
30
120
300
pos ctrl
estrogen stimulation (sec)
pMAPK/tubulin ratio normalized to neg ctrl