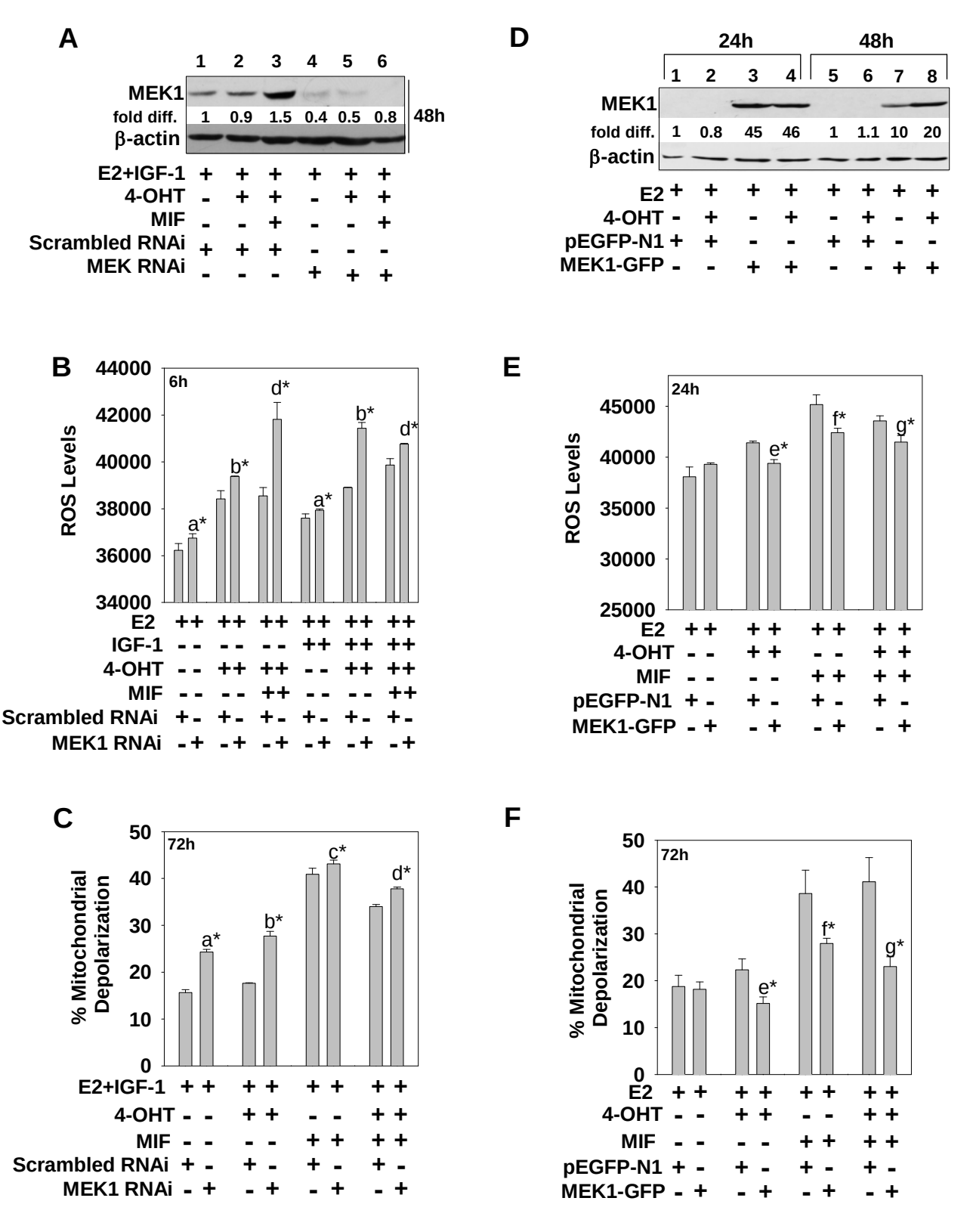
A
1 2 3 4 5 6
MEK1
fold diff. 1 0.9 1.5 0.4 0.5 0.8
48h
β-actin
E2+IGF-1 + + + + + +
4-OHT - + + - + +
MIF - - + - - +
Scrambled RNAi + + + - - -
MEK RNAi - - - + + +
D
24h
48h
1 2 3 4 5 6 7 8
MEK1
fold diff. 1 0.8 45 46 1 1.1 10 20
β-actin
E2 + + + + + + + +
4-OHT - + - + - + - +
pEGFP-N1 + + - - + + - -
MEK1-GFP - - + + - - + +
B
6h
ROS Levels
44000
42000
40000
38000
36000
34000
a* b* d* a* b* d*
E2 ++ ++ ++ ++ ++ ++
IGF-1 - - - - - - ++ ++ ++
4-OHT - - ++ ++ - - ++ ++
MIF - - - - ++ - - - - ++
Scrambled RNAi + - + - + - + - + - + -
MEK1 RNAi - + - + - + - + - + - +
E
24h
ROS Levels
45000
40000
35000
30000
25000
e* f* g*
E2 + + + + + + + +
4-OHT - - + + - - + +
MIF - - - - + + + +
pEGFP-N1 + - + - + - + -
MEK1-GFP - + - + - + - +
C
72h
% Mitochondrial Depolarization
50
40
30
20
10
0
a* b* c* d*
E2+IGF-1 + + + + + + + +
4-OHT - - + + - - + +
MIF - - - - + + + +
Scrambled RNAi + - + - + - + -
MEK1 RNAi - + - + - + - +
F
72h
% Mitochondrial Depolarization
50
40
30
20
10
0
e* f* g*
E2 + + + + + + + +
4-OHT - - + + - - + +
MIF - - - - + + + +
pEGFP-N1 + - + - + - + -
MEK1-GFP - + - + - + - +