10.1071/RD15226_AC

Supplementary Material: *Reproduction, Fertility and Development*, 2017, 29(2), 419–430.

Supplementary Material

Combinatorial effects of epidermal growth factor, fibroblast growth factor 2 and insulin-like growth factor 1 on trophoblast cell proliferation and embryogenesis in cattle

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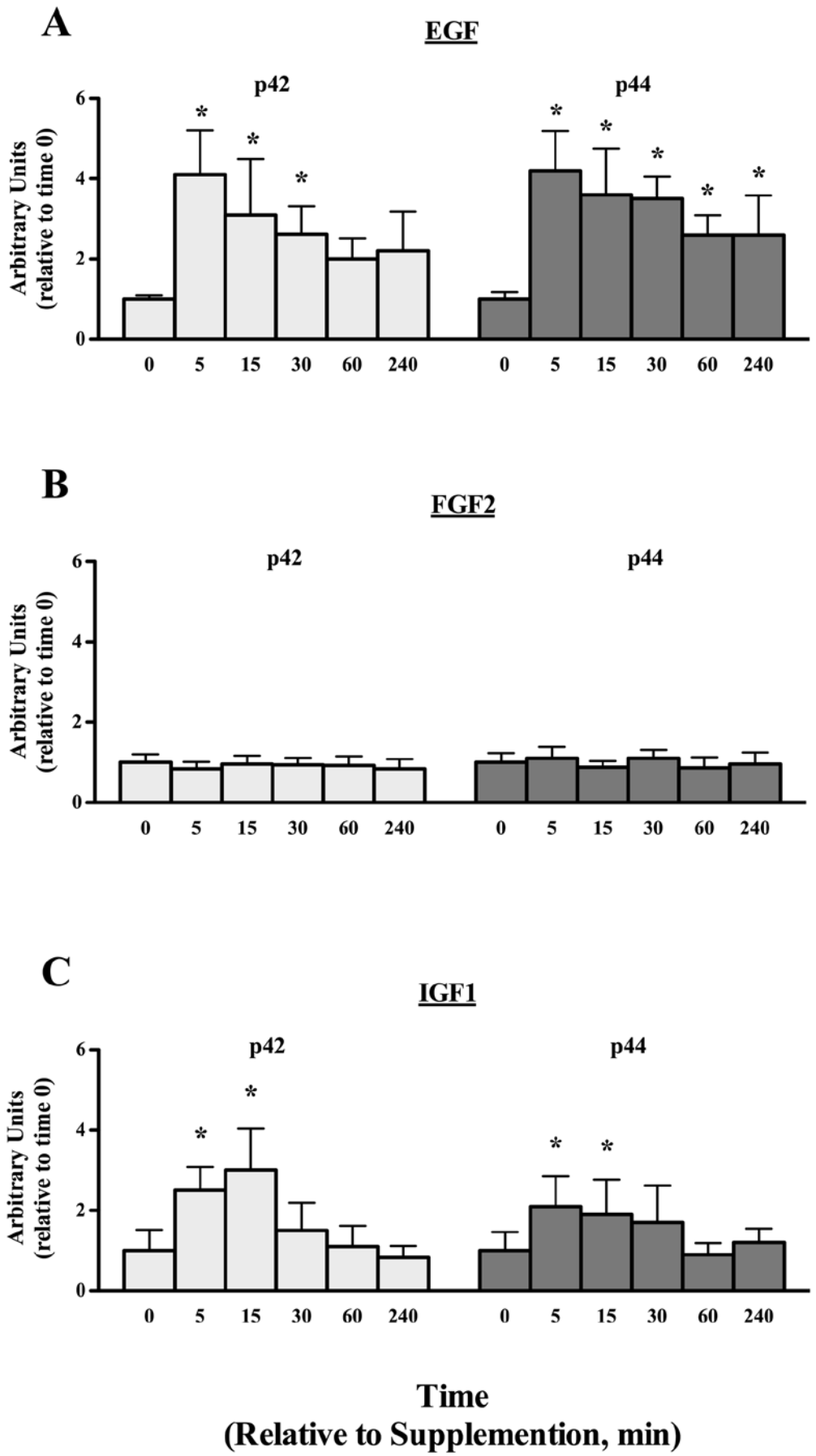
A
EGF
p42
p44
Arbitrary Units
(relative to time 0)
0
2
4
6
0 5 15 30 60 240
0 5 15 30 60 240
B
FGF2
p42
p44
Arbitrary Units
(relative to time 0)
0
2
4
6
0 5 15 30 60 240
0 5 15 30 60 240
C
IGF1
p42
p44
Arbitrary Units
(relative to time 0)
0
2
4
6
0 5 15 30 60 240
0 5 15 30 60 240
Time
(Relative to Supplemention, min)

Fig. S1. Densitometric analysis of EGF-, FGF2-, and IGF1-dependent changes in MAPK3/1 phosphorylation status. CT1 cells lysates were collected either immediately before (time 0) or at specific periods after treatment with 10 ng/ml rhEGF (Panel A), 10 ng/ml rbFGF2 (Panel B), or 50ng/ml rhIGF1 (panel C). Lysates were electrophoresed in polyacrylamide gels and transferred to nylon membranes. Thereafter they were immune-blotted with antibodies recognizing total or phospho-specific (p) MAPK3/1. Three independent studies were completed. Densitometric scanning was completed on the p42 and p44 bands. The phosphorylation status relative to total p42 or p44 is presented. The asterisk (*) indicates time-points with increased ($P<0.05$) phosphorylation when compared with time 0.

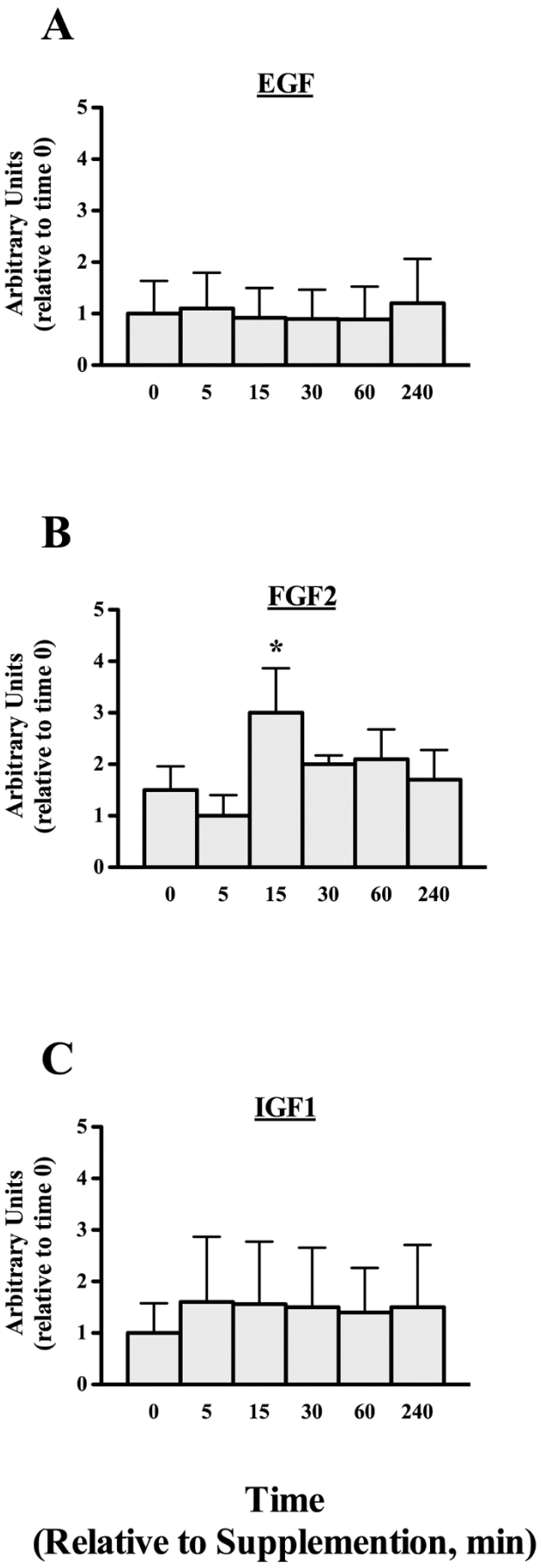
A
EGF
Arbitrary Units
(relative to time 0)
0
1
2
3
4
5
0
5
15
30
60
240
B
FGF2
*
C
IGF1
Time
(Relative to Supplemention, min)

Fig. S2. Densitometric analysis of EGF-, FGF2-, and IGF1-dependent changes in AKT phosphorylation status. CT1 cells lysates were collected either immediately before (time 0) or at specific periods after treatment with 10 ng/ml rhEGF (Panel A), 10 ng/ml rbFGF2 (Panel B), or 50ng/ml rhIGF1 (panel C). Lysates were electrophoresed in polyacrylamide gels and transferred to nylon membranes. Thereafter they were immune-blotted with antibodies recognizing total or phospho-specific (p) AKT. Three independent studies were completed. Densitometric scanning was completed. The phosphorylation status relative to total AKT is presented. The asterisk (*) indicates time-points with increased ($P<0.05$) phosphorylation when compared with time 0.