

Supplementary Materials: Direct Current Electrical Fields Improve Experimental Wound Healing by Activation of Cytokine Secretion and Erk1/2 Pathway Stimulation

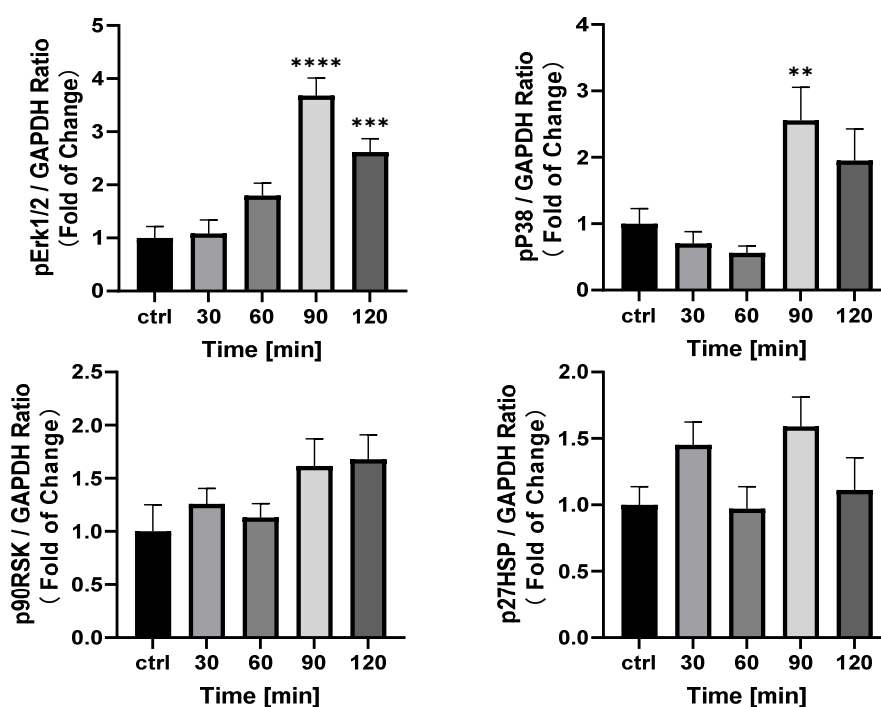
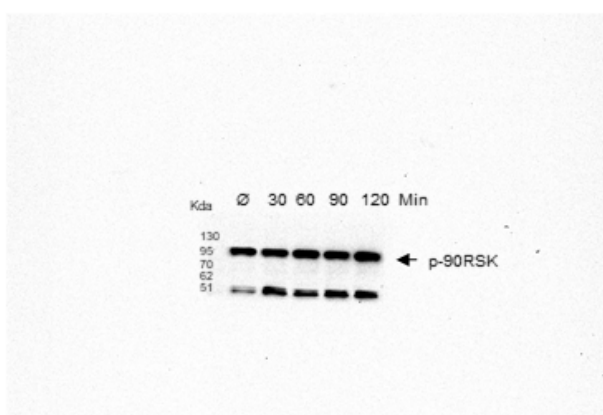
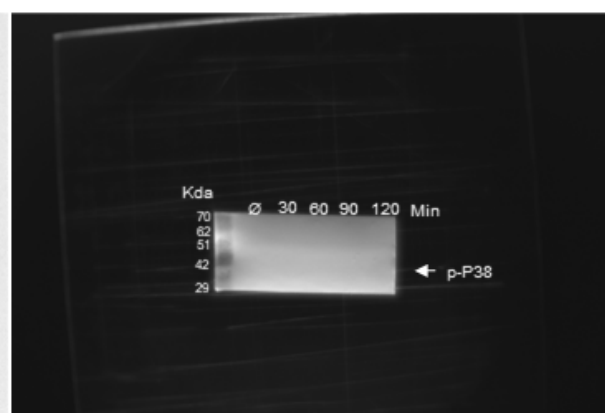
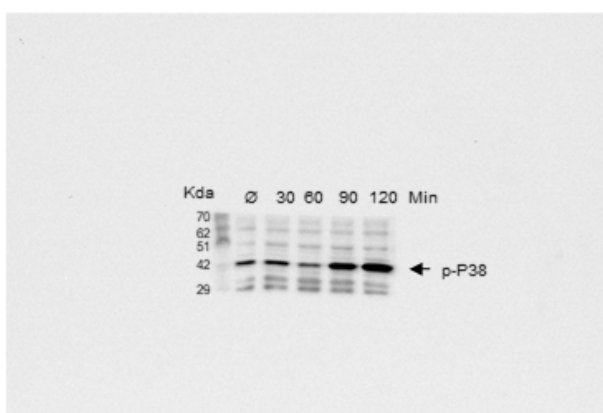
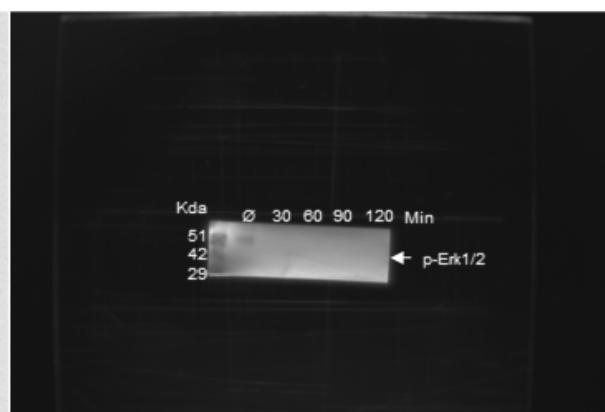
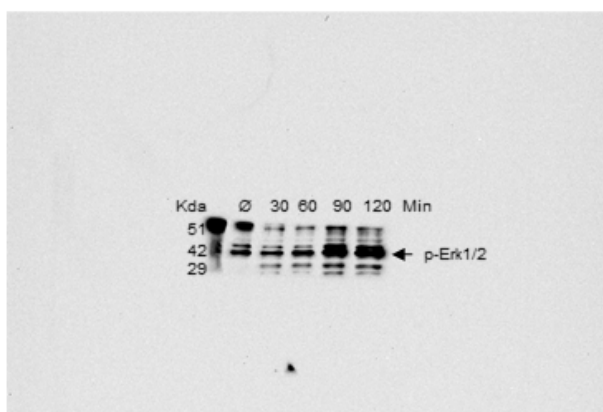


Figure S1. Quantitative analysis of phospho-Erk1/2, phospho-P38, phospho-90RSK, and phospho-27HSP abundance 30, 60, 90, and 120 min after exposure to an EF of 200 mV/mm. N = 3, n = 3. Data were compared by non-parametric two-way ANOVA followed by Tukey's multiple comparison test: ** p < 0.01, *** p < 0.001, **** p < 0.0001, as compared to the control (no EF).

Table S1. Densitometry Readings/intensity Ratio.

	pErk1/2 / GAPDH	pP38 / GAPDH	p90RSK / GAPDH	p27HSP / GAPDH
Ctrl	1.00000	1.00000	1.00000	1.00000
30min	1.07955	0.70071	1.25670	1.45103
60min	1.79286	0.55721	1.13016	0.97144
90min	3.67647	2.55619	1.61508	1.58866
120min	2.61600	1.94847	1.67817	1.11156



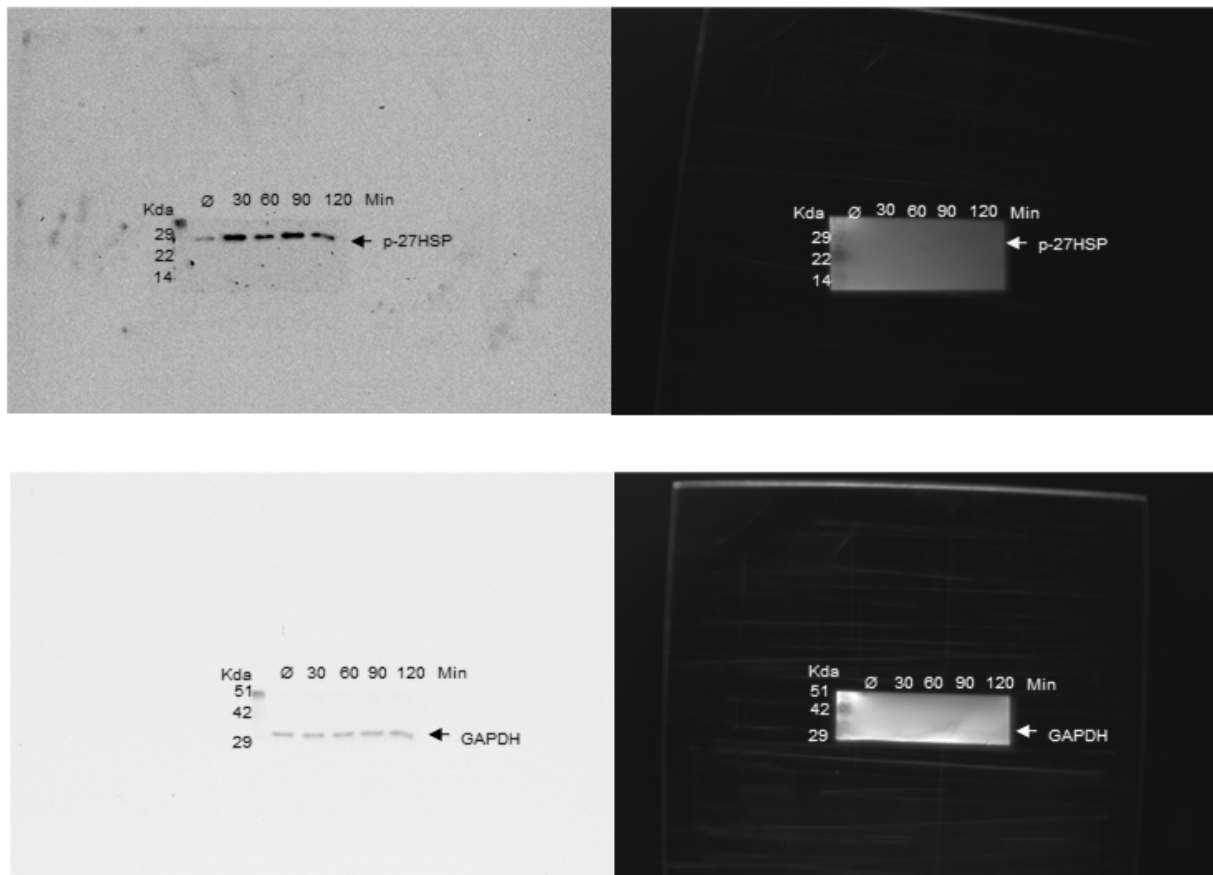


Figure S2. Regulation of Erk1/2 and P38 by EF Western blot signals (with white background) and the corresponding plain images (with black background) for phospho-Erk1/2, phospho-p38, phospho-90RSK, and phospho-HSP27 in HaCaT cells 30, 60, 90, and 120 min after exposure to an EF of 200 mV/mm. The expression of GAPDH was used as a loading control.