

Table W1. Primer Sequences for qPCR.

Gene	Forward Primer (5' to 3')	Reverse Primer (5' to 3')
<i>TATA box-binding protein</i>	TGTACCGCAGCTGCAAAAT	GGATTATATTCAGCGTTTCG
<i>KLF5</i>	ACCCTGGTTGCACAAAAGTT	CAGCCTTCCCAGGTACACTT
<i>BAX</i>	ACTTTGCCAGCAAAGTGGTG	GGAGGAAGTCCAATGTCCAG
<i>ASK1</i>	CCTAGCCAATGACCACATGA	GACCAGGAAATCCATCCAAA
<i>MKK4</i>	TGGAGAAATTGGACGAGGAG	GGCAATCACTACTCCGCATT
<i>MKK7</i>	GTCCCTCCCTGGAACAGAAGC	GGGAGCTCTTGAGGATGG
<i>TP53</i>	AGGCCTTGGAAGTCAAGGAT	TTATGGCGGGAGGTAGACTG
<i>TP73</i>	CACCTCCAAGGTTACAGA	GTACTGCTCGGGATCTTCA
<i>14-3-3</i>	AGAAAGTGGAGTCCGAGCTG	CCGGAAGTAATCACCCCTCA
<i>BCL2</i>	GCCCTGTGGATGACTGAGTA	GGCCGTACAGTCCACAAAG
<i>MDM2</i>	GGTGCTGTAACCACCTCACA	TTTTTGTGCACCAACAGACTTT
<i>NOXA</i>	CACGCTGCCATCGACTAC	CCGACGCCACATTGTGTA
<i>PUMA</i>	GACGACCTCAACGCACAGTA	AGGAGTCCCATGATGAGATTGT
<i>DR5</i>	CCCACAACAAAAGAGGTCCA	CCTGTCCATATTTGCAGGAGA
<i>GADD45A</i>	GAGCTCCTGCTCTTGAGAC	GCAGGATCCTTCCATTGAGA
<i>BIRC5</i>	GGACCACCGCATCTCTACAT	GTCTGGCTCGTTCTCAGTGG
<i>KLF4</i>	TTGCAGAGCTCAACAGGATG	ATCAGCCACGGATACTGAA

Table W2. ChIP Primer Sequences.

Name	Forward Primer (5' to 3')	Reverse Primer (5' to 3')
BAX-ChIP	ACCCATGTAACACCATTTCAGA	GGCAGAACTAATCTGTGCTGA
BAX-CR (control)	CCTGTGATCTATCAGCACAG	GCTGGTCTCTGAACTCCCAGA
ASK1-CHIP	CAGCCCGCTCGTAAGGTG	GGACGGAGCTTCCITTTCTT
ASK1-CR (control)	CCCCCTCCCGTCTCTACTAA	TGAGACGGAGTTTCGCTCTT
MKK4-ChIP	CAGCTGTCTGCTTCACAGGT	GCCATTGTTGGGAGTGAAG
MKK4-CR (control)	ATGCCCTAGGAGCAACAAGA	GGCAAATTGAAGGTGAGAGC

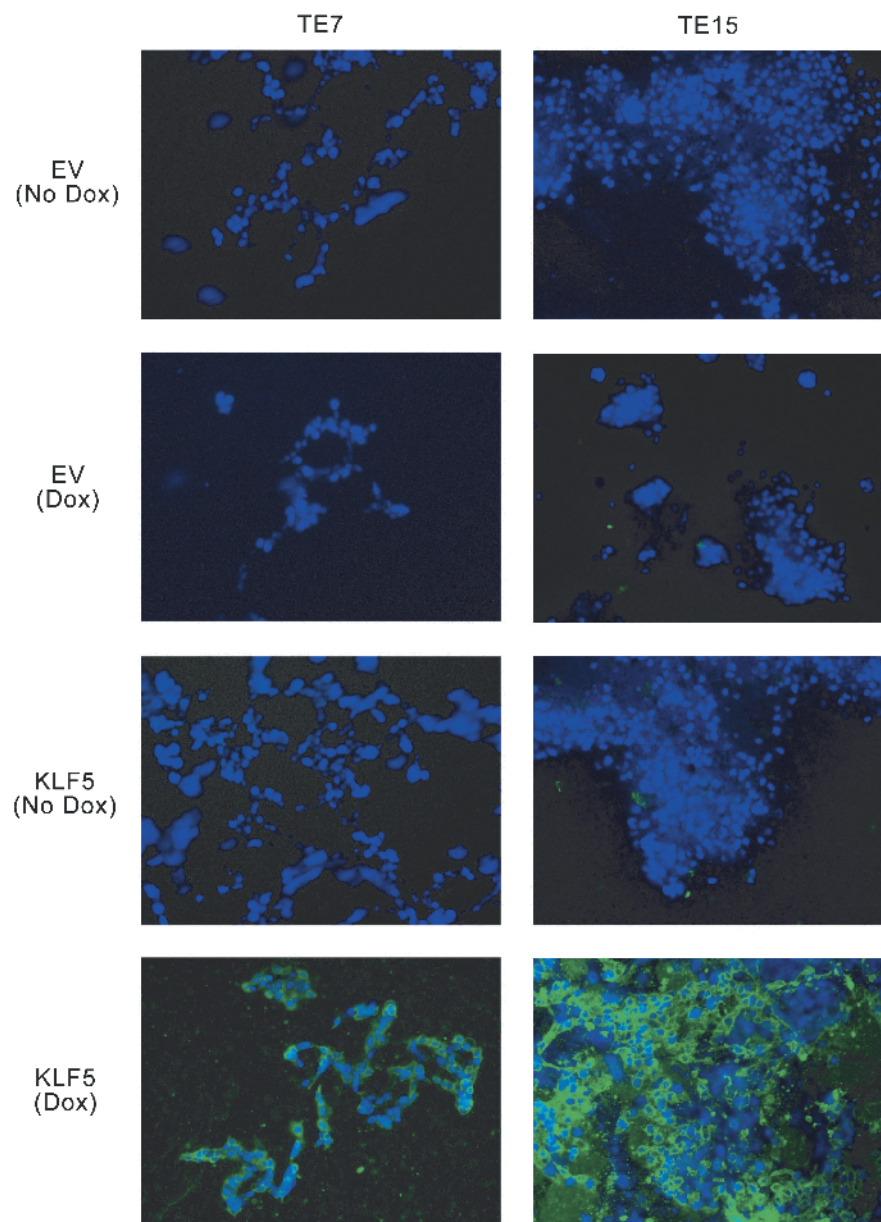


Figure W1. After 24 hours of *KLF5* induction, TE7 and TE15 cells demonstrated increased apoptosis, as indicated by annexin V staining (green), compared to EV and uninduced controls. Note the lack of necrotic cells, which stain with propidium iodide (red). Cells were counterstained with DAPI (blue). Original magnification, $\times 400$.

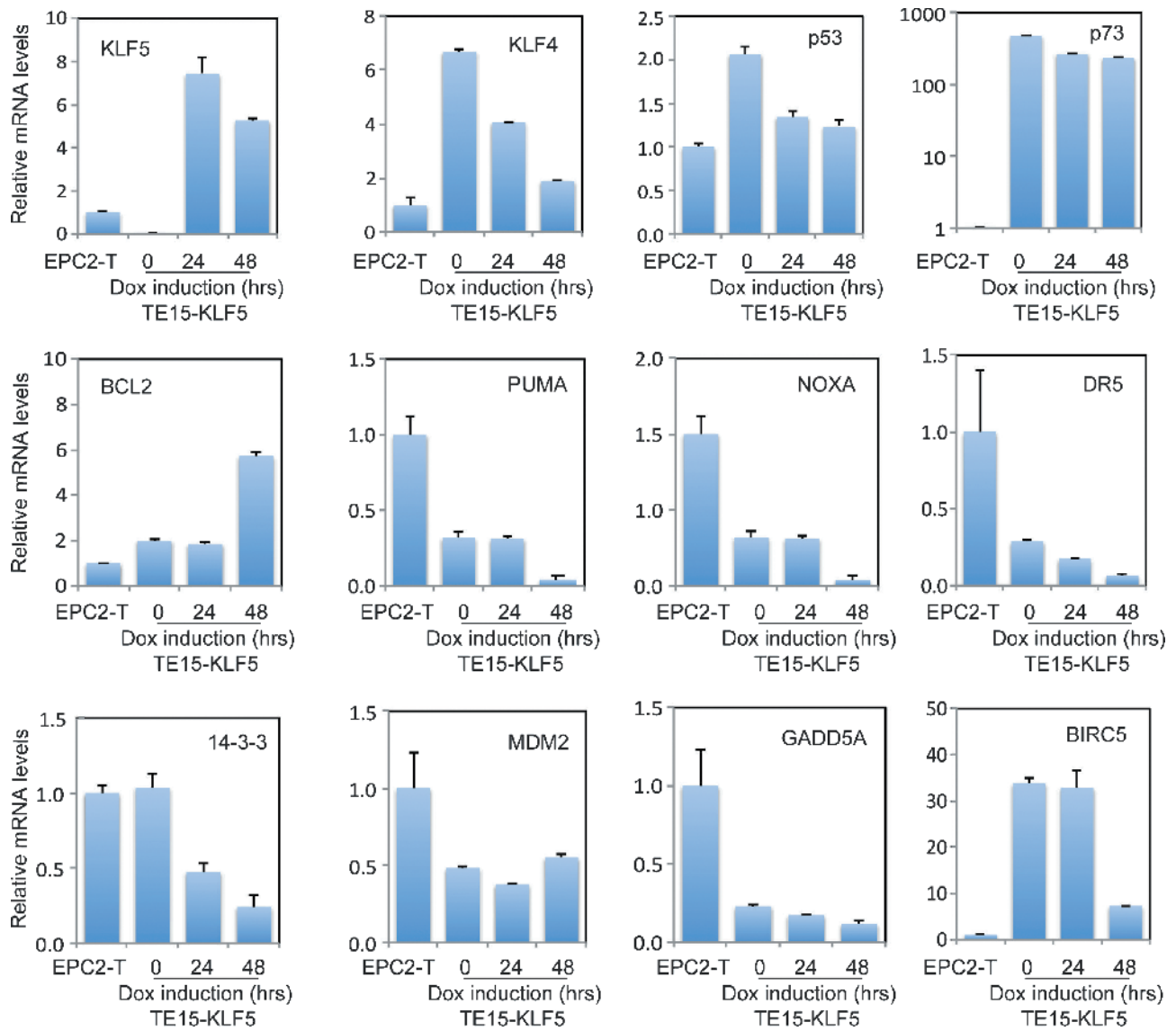


Figure W2. *KLF5* induction in TE15 cells altered mRNA expression of a broad array of apoptotic and survival factors, as assessed by qPCR. Nontransformed primary human esophageal keratinocytes (EPC-T cells) were included for comparison.

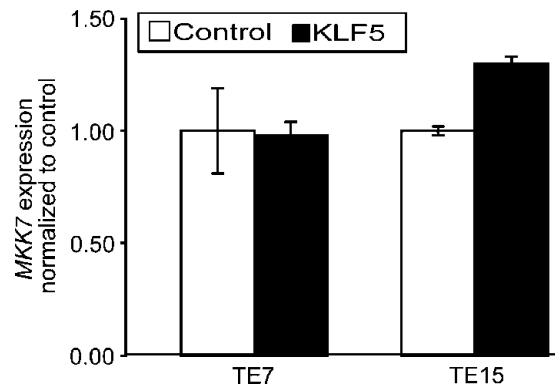


Figure W3. Induction of *KLF5* for 24 hours in TE7 and TE15 ESCC cells did not alter the expression of *MKK7* mRNA, as assessed by qPCR, demonstrating the specificity of *KLF5* for *MKK4*.