

Supplementary Materials:

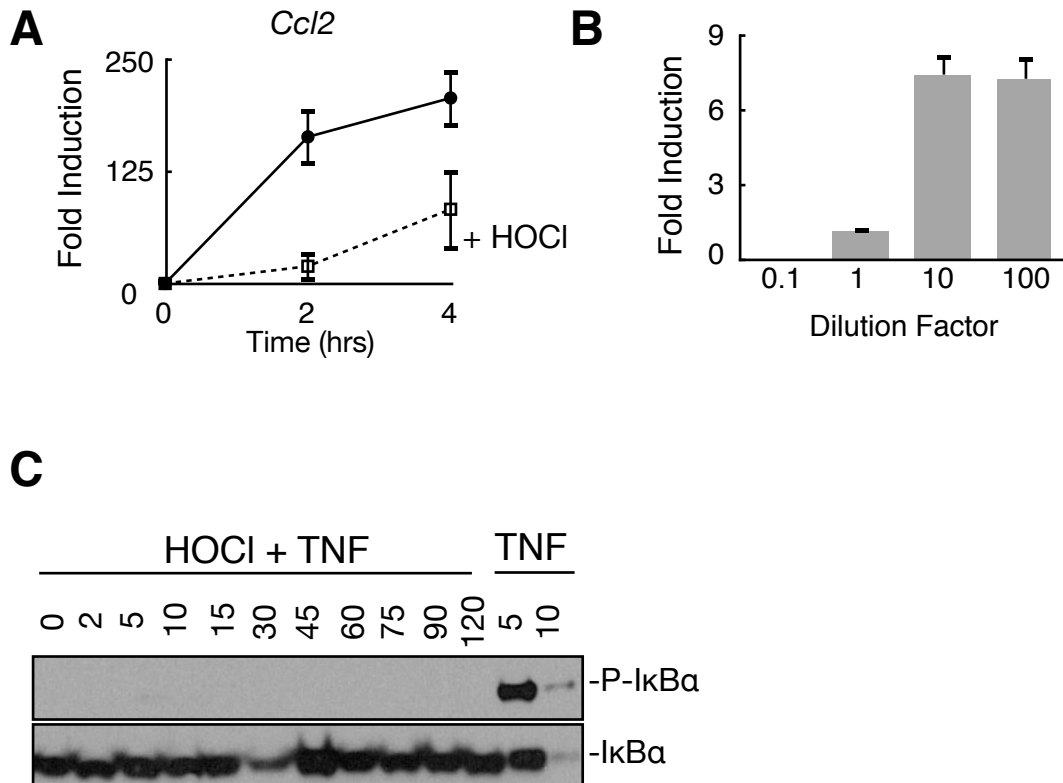


Figure S1. Hypochlorite inhibits NF-κB signaling in a dose-dependent manner. (A) Relative mRNA transcript levels of *Ccl2* in TNF α -stimulated mouse wild-type (WT) cells with (dotted line) and without (solid line) hypochlorite (HOCl) pretreatment. **(B)** Relative luciferase levels in TNF α -stimulated transgenic WT cells carrying an integrated NF-κB-reporter gene driving luciferase with serial dilutions of hypochlorite pre-treatment. **(C)** Western blot analysis of IκB α and phospho-IκB α -Ser32 levels in TNF α -stimulated wild-type cells with and without HOCl pretreatment. Data presented as average \pm s.e.m.

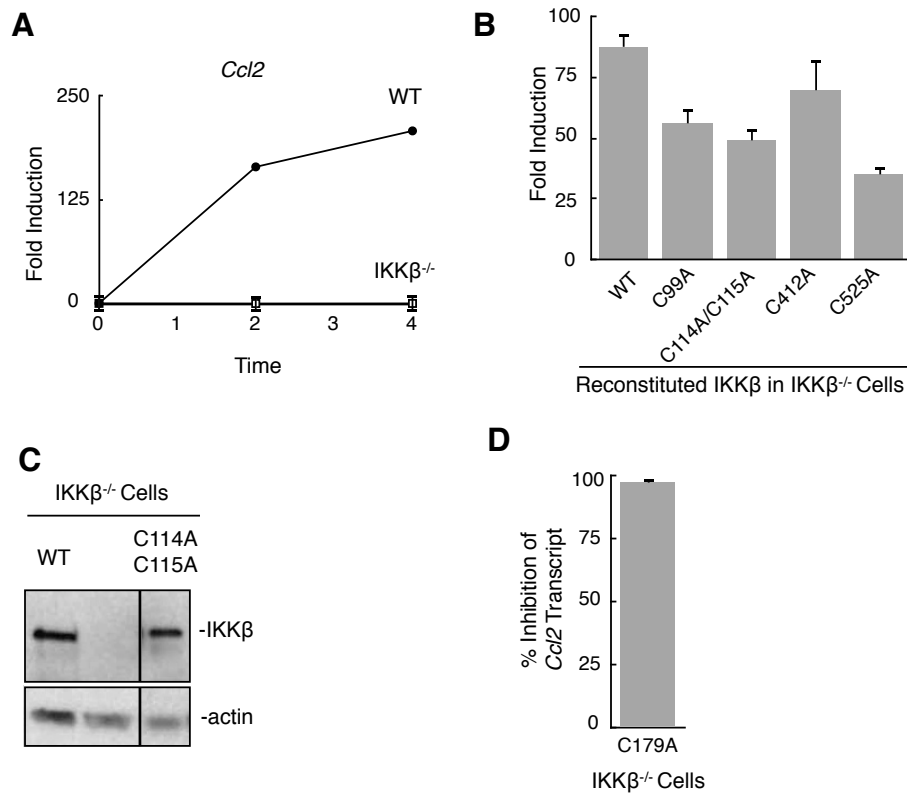


Figure S2. Rescue of IKK β ^{-/-} with a human IKK β transgene. (A) Relative mRNA transcript levels of *Ccl2* in TNF α -stimulated IKK β -deficient mouse embryonic fibroblasts (MEFs). **(B)** Relative mRNA transcript levels of *Ccl2* in TNF α -stimulated IKK β -deficient MEFs reconstituted with indicated missense variants of human IKK β (variants with substitution of cysteine by alanine are denoted as C99A, C114A/C115A, C412A, and C525A. C114A/C115A is a double-mutant.) at 4 hours. **(C)** Western blot analysis of IKK β protein levels in IKK β -deficient MEFs reconstituted with human IKK β (WT) and IKK β C114A/C115A. Black lines indicate grouping of images from different parts of the same gel. **(D)** Percent inhibition of *Ccl2* mRNA transcript levels in TNF α -stimulated IKK β -deficient cells complemented with C179A IKK β transgene. Data presented as average \pm s.e.m.

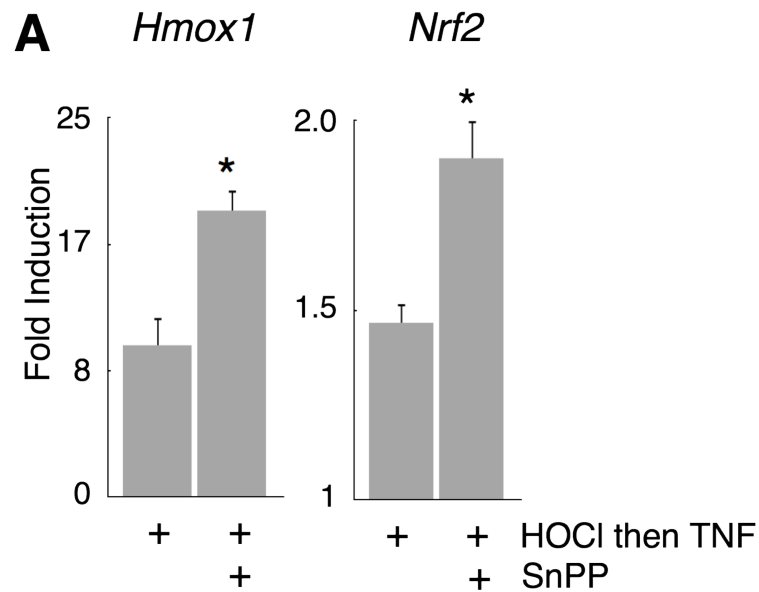


Figure S3. Tin Protoporphyrin Increases Oxidative Stress in wild-type fibroblasts. (A) Relative mRNA transcript levels of *Hmox1* and *Nrf2* in hypochlorite (HOCl)-pretreated TNF α -stimulated mouse wild-type cells with and without tin protoporphyrin (SnPP). * P < 0.004. Data presented as average \pm s.e.m.



Figure S4. Hypochlorite attenuates acute radiation dermatitis. (A) Low magnification photographs taken of the back skin on days 14, 20, and 30 after start of irradiation. Pictures are representative images from each group.

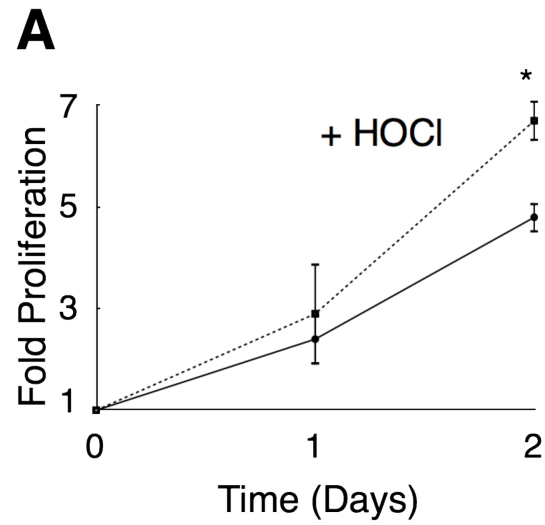


Figure S5. Hypochlorite Stimulates Proliferation in Human Keratinocytes. (A) Primary human keratinocytes were grown in standard conditions with and without 1-hour daily pulse treatments with hypochlorite (HOCl). * $P=0.002$. Data presented as average \pm s.e.m.

Primer Sequences

Ccl2 F AAGGAATGGGTCCAGACATAC
Ccl2 R CTGAAGACCTTAGGGCAGAT

Gapdh F ACCTGCCAAGTATGATGACATCA
Gapdh R CCCTCAGATGCCTGCTTCAC

Cxcl10 F AGGACGGTCCGCTGCAA
Cxcl10 R CATTCTCACTGGCCCGTCAT