

Figure S1: CRISPR-mediated generation of a C/EBP δ TAD mutant. (A) Overview of C/EBP δ showing the transactivation domain; the basic DNA binding region and the Leucine zipper. (B) Guide RNAs binding to opposite sides of the TAD results in CAS9 dependent deletion of the region between the guides. (C) PCR analysis of DNA isolated from RAW cells after CRISPR-mediated TAD deletion. (D) Sequence analysis of genomic DNA in WT RAW cells or (E) Δ TAD cells. The latter cells show an in frame deletion of TAD. (F) RT-PCR (mRNA) analysis of WT; KO and Δ TAD cells with WT; TAD or KO specific primers.

Wild type RAW264.7 cells

Genomic DNA

ATGAGCGCCGCGCTTTTTCAGCCTGGACAGCCCGGTGCGGGGCACACCCCTGGCCACAGAACCCGCGGCCTTCTAC
GAGCCAGGCAGGGTGGACAAGCCCGGCGAGGGCCCGAGCCAGGGGATCTGGGGGAGCTGGGCTCCACGACTOCT
GCCATGTACGACGACGAGAGCGCCATCGACTTCAGCGCCTACATTGACTCCATGGCCGCGTGGCCACCCCTAGAG
CTGTGCCACGACGAACTCTTCGCCGACCTCTTCAACAGCAACCACAAAGCGGCGCGCGGGCGGCTGGAGCTG
CTGCAGGGCGGCCCTACGCGACCCCGGGTGTGGGGTCTGTGCTAGGGGGCGCTCAAGCGCGAAOCCGACTGG
GGCGACGGCGACGCGCCGGGCTCCCTGCTGCGGGCGCAAGTGGCGGTGTGCGGCGAGACAGTGGTGGCTTGGCG
GCCGCGGCTCAGCCCACTCCACCCACTTCGCGGAGCCTCCTCGAGGCAGCCCGGGGCGAGCCTCGCGCCCGGC
ACAGTCCGAGAAAAGGGGCGGGGCAAGAGGGGTCCGGAOCCGCGGCGAGCCCGGAGTACCGGCAGCGGCGAGCGC
AACAACATCGCTGTGCGCAAGAGCCGCGACAAGGCCAAGCGCGCAACCAGGAGATGCAGCAGAAGCTGGTGGAG
TTGTGCGCCGAGAACGAGAAGCTGCATCAGCGCGTGGAGCAGCTCACC CGGGACCTGGCTGGCCTCGGCGAGTTC
TTCAAAAACCTGCCAGCCCGCCTTTCTGCGCCACCGCGCGGCTGCGCGTAA

Protein

MSAALFSLDSFVRGTPWPTEPAAFYEPGRVDKPGRGPEPGDLGELGSTTPAMYDDESAIDFSAYIDSMAAVPTLE
LCHDELFLADLNSNHKAAGAGGLELLQGGPTRPPGVGSVARGPLKREP DWGDGDAPGSL LPAQVAVCAQT VVSLA
AAAQPTPPTSPPEPRGSPGPSLAPGTVREKAGKRGPDGRGSPFYRQRRERNNIAVRKSRDKAKRRNQEMQQKLVE
LSAENEKLHQVEQLTRDLAQLRQFFKKLPSPFFLPPTGADCR

C/EBP δ knock out RAW264.7 cells, clone 1

Genomic DNA

ATGAGCGCCGCGCTTTTTCAGCCTGGACAGCCCGGTGCGGGGCACACCCCTGGCCACAGAACCCGCGGCCTTCTAC
GAGCCAGGCAGGGTGGACAAGCCCGGCGAGGGCCCGAGTGTGGGGTCTGTGCTAGGGGGCCGCTCAAGCGCGA
ACCGACTGGGGCGACGGCGACGCGCCGGGCTCCCTGCTGCGGGCGCAAGTGGCGGTGTGCGCGCAGACAGTGGT
GAGCTTGGCGGCCCGGGCTCAGCCCACTCCACCCACTTCGCGGAGCCTCCTCGAGGCAGCCCGGGGCGAGCCT
CGCGCCCGGCACAGTCCGAGAAAAGGGC

Protein

MSAALFSLDSFVRGTPWPTEPAAFYEPGRVDKPGRGPEGVCR

C/EBP δ knock out RAW264.7 cells, clone 2

Genomic DNA

ATGAGCGCCGCGCTTTTTCAGCCTGGACAGCCCGGTGCGGGGCACACCCCTGGCCACAGAACCCGCGGCCTTCTAC
GAGCCAGGCAGGGTGGACAAGCCCGGCGAGGGCCCGAGTGTGGGGTCTGTGCTAGGGGGCCGCTCAAGCGCGA
CCGACTGGGGCGACGGCGACGCGCCGGGCTCCCTGCTGCGGGCGCAAGTGGCGGTGTGCGCGCAGACAGTGGTGA
GCTTGGCGGCCCGGGCTCAGCCCACTCCACCCACTTCGCGGAGCCTCCTCGAGGCAGCCCGGGGCGAGCCTCG
CGCCCGGCACAGTCCGAGAAAAGGGC

Protein

MSAALFSLDSFVRGTPWPTEPAAFYEPGRVDKPGRGPEWGLSLGGRSSANPTGATATRRAPCCRRKWRCAARRQW

C/EBP δ Δ TAD RAW264.7 cells, clone 1 and 2

Genomic DNA

ATGAGCGCCGCGCTTTTTCAGCCTGGACAGCCCGGTGCGGGGCACACCCCTGGCCACAGAACCCGCGGCCTTCTAC
GAGCCAGGCAGGGTGGACAAGCCCGGCGAGGGCCCGGGTGTGGGGTCTGTGCTAGGGGGCCGCTCAAGCGCGAA
CCCGACTGGGGCGACGGCGACGCGCCGGGCTCCCTGCTGCGGGCGCAAGTGGCGGTGTGCGCGCAGACAGTGGTGA
AGCTTGGCGGCCCGGGCTCAGCCCACTCCACCCACTTCGCGGAGCCTCCTCGAGGCAGCCCGGGGCGAGCCTC
GCGCCCGGCACAGTCCGAGAAAAGGGCGCGGGCAAGAGGGGTCCGGAOCCGCGGCGAGCCCGGAGTACCGGCAGGG
CGCGAGCGCAACAACATCGCTGTGCGCAAGAGCCGCGACAAGGCCAAGCGCCGCAACCAGGAGATGCAGCAGAAG
CTGGTGGAGTTGTGCGCGAGAACGAGAAGCTGCATCAGCGCGTGGAGCAGCTCACC CGGGACCTGGCTGGCCTC
CGGCAGTTCTTCAAAAACCTGCCAGCCCGCCTTTCTGCGCCACCGGGCGCGGCTGCGCGTAA

Protein

MSAALFSLDSFVRGTPWPTEPAAFYEPGRVDKPGRGPGVGSVARGPLKREP DWGDGDAPGSL LPAQVAVCAQT VV
SLAAAAQPTPPTSPPEPRGSPGPSLAPGTVREKAGKRGPDGRGSPFYRQRRERNNIAVRKSRDKAKRRNQEMQQK
LVELSAENEKLHQVEQLTRDLAQLRQFFKKLPSPFFLPPTGADCR

Figure S2: Genomic DNA and protein sequence of wild type, C/EBP δ knock out and C/EBP δ Δ TAD RAW264.7 clones. The transactivation domain is indicated in red in the wild type sequences.

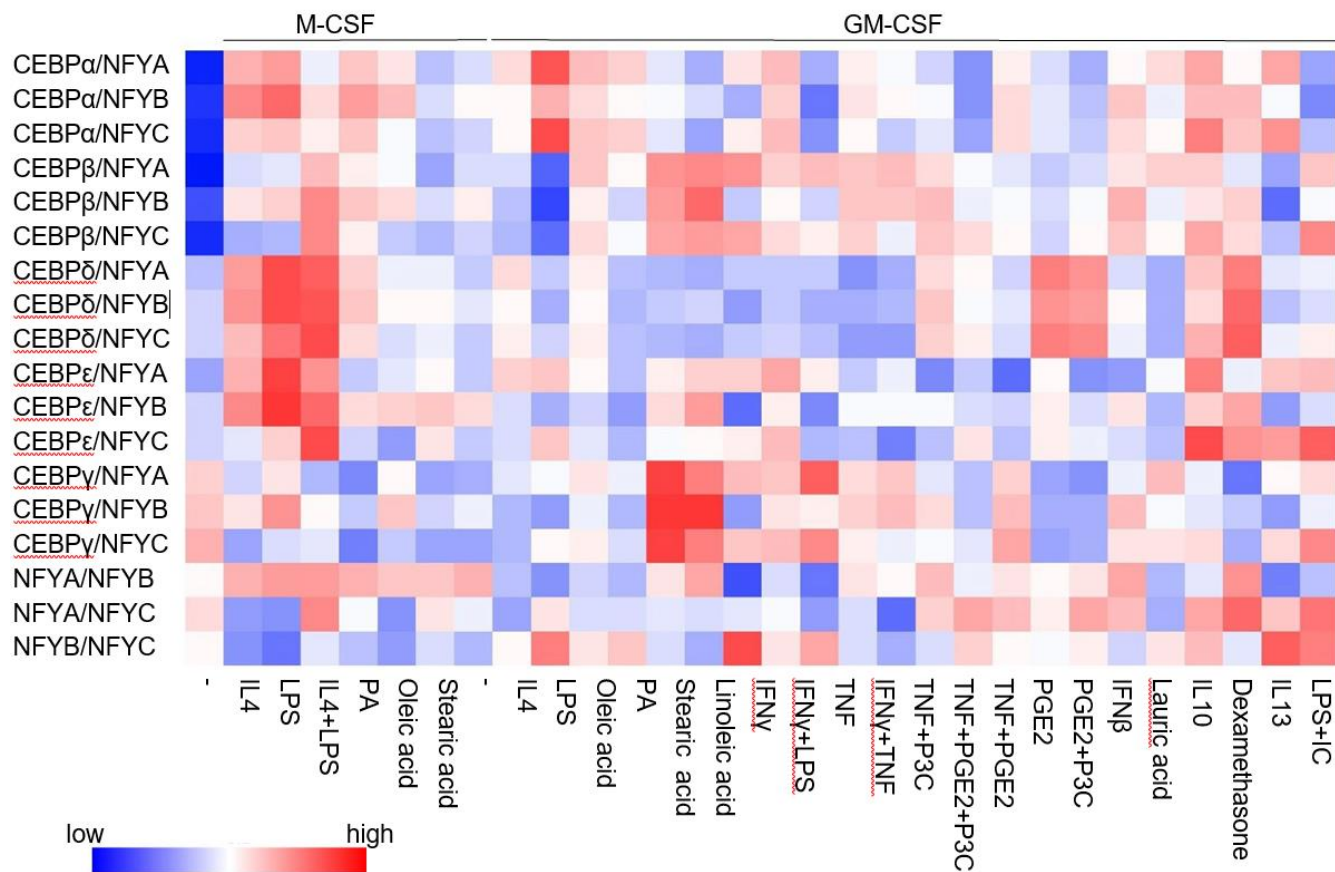


Figure S3. Relative CEBP and NF-Y family member expression in monocytes and macrophages. Heatmap of the expression ratio of C/EBP and NF-Y family members in monocytes differentiated and activated with different stimuli (data derived from GSE46903).