

Supplemental information

Carboxypeptidase M deficiency aggravates complement-induced lung injury

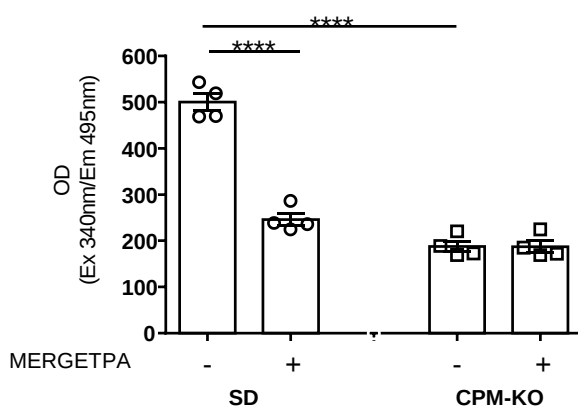
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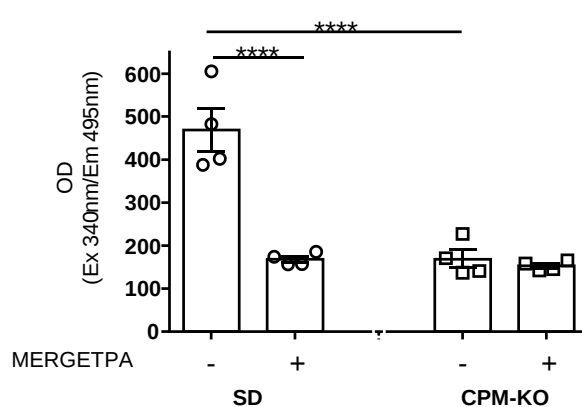
Figure S1: Carboxypeptidase enzyme activity in kidney and bone marrow and CPN1 and CPB2 expression in lung and liver

Carboxypeptidase activity is strongly reduced in the kidney (A) and bone marrow (B) of CPM-KO rats. The expression of CPN1 is unchanged in lung (C) and liver (E) and CPB2 expression is unchanged in lung (D) but downregulated in liver (F) of CPM-KO rats. Cobra venom factor (CVF) treatment does not significantly change CPN1 and CPB2 expression in lung. SD, Sprague Dawley control rats, CPM-KO, CPM-knockout rat, MERGETPA, DL-2-mercaptomethyl-3-guanidinoethylthiopropionic acid. n=4/group ****, p<0.0001

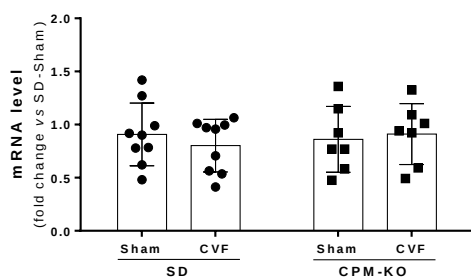
A CPM enzyme activity in Kidney



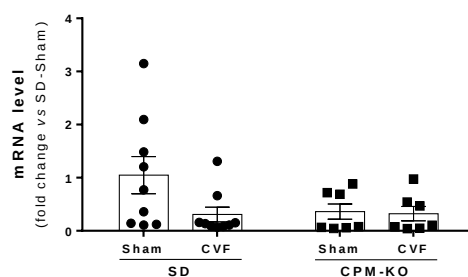
B CPM enzyme activity in Bone Marrow



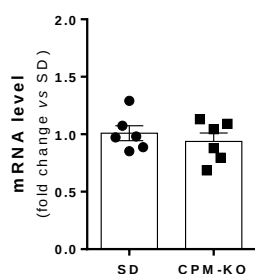
C CPN1 expression in lung



D CPB2 expression in lung



E CPN1 expression in liver



F CPB2 expression in liver

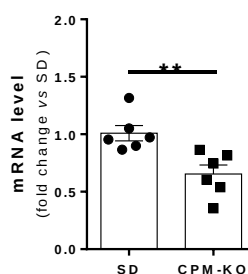


Table S1. Oligonucleotides

All oligonucleotides were synthesized by Eurofins Genomics (Ebersberg, Germany)

CPM5 5'-GTGGGACCATCTTTACCTGG-3';
CPM3 5'-TGAGTTCTGAGCCACGCTC-3'
MPO sense 5' - CTACCCGGTTCTCCTTCCTC -3'
MPO antisense 5' - GGTTCTTGATTGAGGGTCA -3',
CD11b (Itamg) sense 5' - GGCTCCGGTAGCATCAACAG-3'
CD11b (Itamg) antisense 5' - ATTTTGGGTCAGGGTTTCTCT -3',
Itgb2 sense 5' - GAGGAATGCACCAAGTACAAAGT-3'
Itgb2 antisense 5' - GTCACAGCGCAAGGAGTCA-3',
MCP-1 (Ccl2) sense 5' - GATGCAGTTAATGCCCCACT-3'
MCP-1 (Ccl2) antisense 5' - ACCTGCTGCTGGTGATTCTC-3',
C5aR1 sense 5'-GTCAACGCCATTTGGTTTCT-3'
C5aR1 antisense 5'-GGGCCAGTGTTATGCTTTA-3',
TGF- β sense 5'-GCAGAGTTCAGGGTCTTTTCG-3'
TGF- β antisense 5'-GCTGGGTGGAGATGTTAGG-3',
TNF- α sense 5'-ATGGGCTCCCTCTCATCAGTTC-3'
TNF- α antisense 5'-GCTTGGTGTTTGCTACGAC-3',
IL-6 sense 5'-GCCCTTCAGGAACAGCTATG-3'
IL-6 antisense 5'-TGAAGTAGGGAAGGCAGTGG-3',
IL-1 β sense 5'-CAGCTTTCGACAGTGAGGAGA-3'
IL-1 β antisense 5'-TTGTCGAGATGCTGCTGT GA-3',
CD68 sense 5'-ACCAATCTCTCTTGCTGCCT-3'
CD68 antisense 5'-GAGGGGCTGGTAGGTTGAT-3',
CPB2 sense 5'-GTGTGAGAAAGGCGCATCAA-3',
CPB2 antisense 5'-TTCTCCTCAGGAAGTCAGCC-3',
CPN1 sense 5'-GGTTCGGGTCACTGCATACT-3',
CPN1 antisense 5'-GACAACTTCTTGACGACCA-3',
18S sense 5'-CGTTCTTAGTTGGTGGAGCG3'
18S antisense 5'-AACGCCACTTGTCCC TCTAA-3'
TBP sense 5'-ACTGTTTCATGGTGCGTGAC-3'
TBP antisense 5'-AGCATAAGGTGGAAGGCTGT-3'