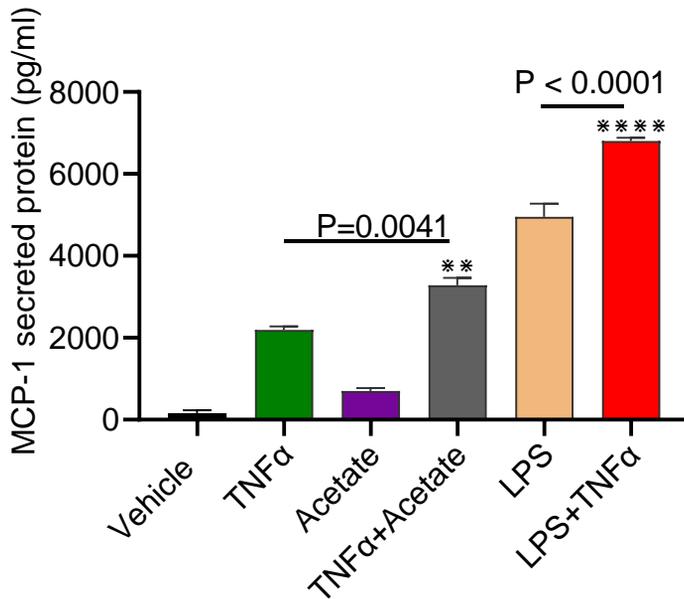


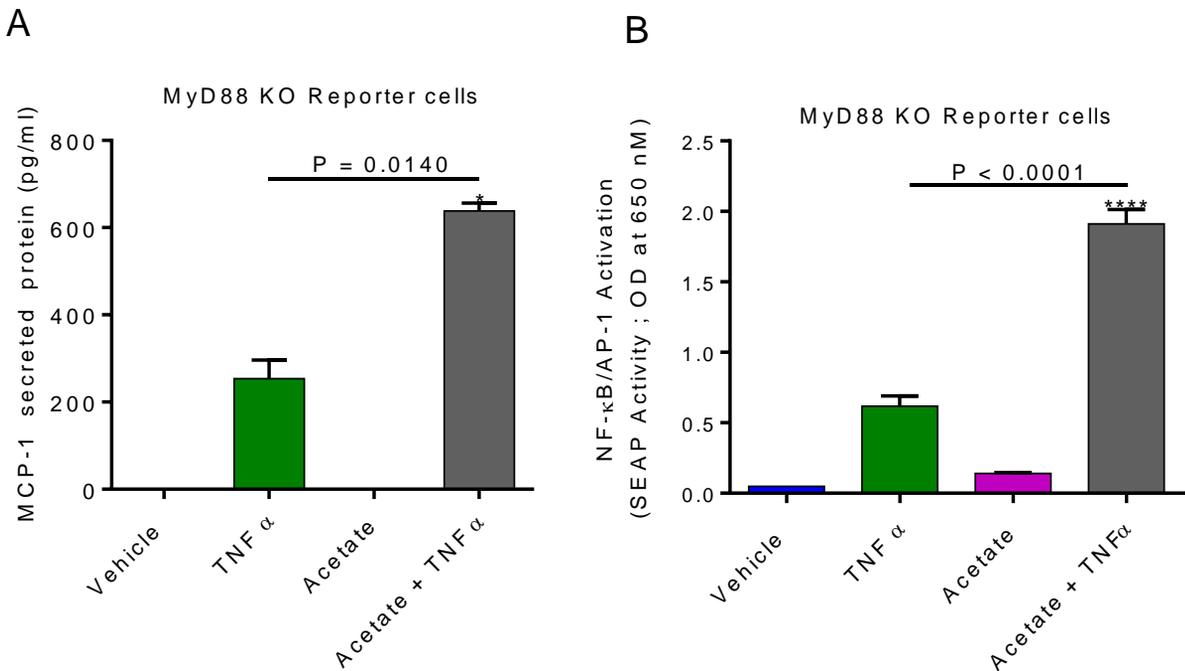
## **Additional files/ Supplementary Figures**

**Title:** Short chain fatty acid acetate increases TNF $\alpha$ -induced MCP-1 production in monocytic cells via ACSL1/MAPK/NF-kB axis

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**Figure S1.** TNF $\alpha$ /LPS induces higher MCP-1 production compared to stimulation by TNF $\alpha$ /acetate. THP-1 monocytic cells were stimulated in triplicate wells with tumor necrosis factor (TNF)- $\alpha$  (10 ng/mL) with/without sodium acetate (100 mM) or TNF $\alpha$  (10 ng/mL) with/without lipopolysaccharide (LPS; 10 ng/mL) and cells were incubated at 37°C for 24h. Supernatants were harvested for determining MCP-1 levels by ELISA. The data obtained from 3 independent experiments with similar results show MCP-1 expression in response to co-stimulation by TNF $\alpha$ /acetate or by or TNF $\alpha$ /LPS. All data are expressed as mean  $\pm$  SEM (n = 3).\*\*p < 0.01, \*\*\*\*p < 0.0001.



**Figure S2.** TNF $\alpha$  together with acetate increases MCP-1 and NF- $\kappa$ B/AP-1 activity independent of MyD88. (A) MyD88 Knockout reporter cells were treated as described. Culture media were collected. (A) MCP-1 protein was determined in the supernatant. (B) Cell culture media were assayed for SEAP reporter activity (degree of NF- $\kappa$ B/AP-1 activation). The results obtained from three independent experiments are shown. All data are expressed as mean  $\pm$  SEM ((n =3). \*p < 0.05, \*\*\*\*p < 0.0001 versus TNF- $\alpha$  alone.