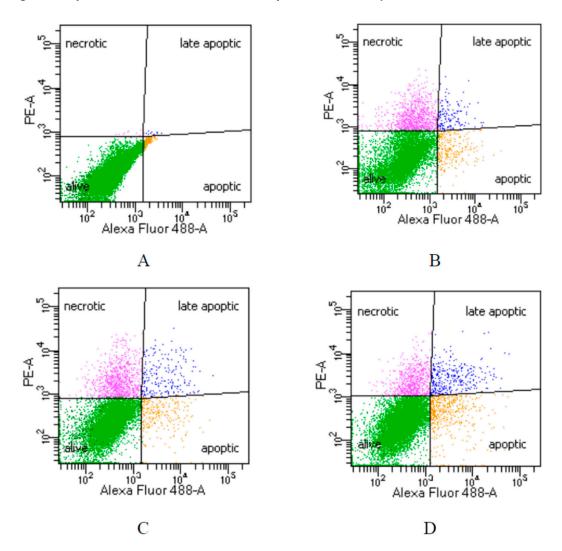
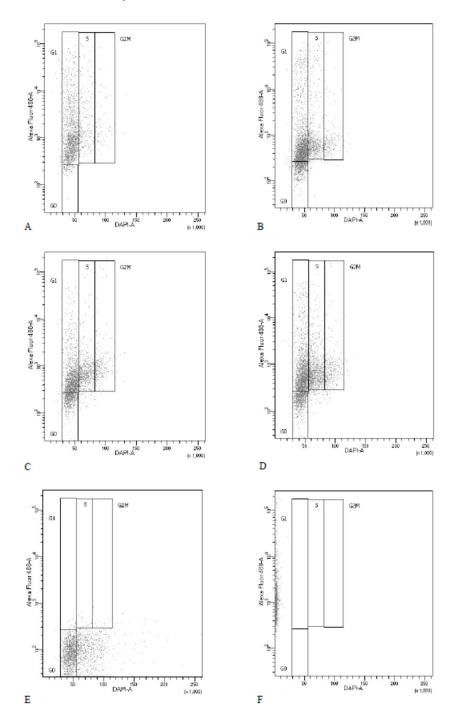
## Supplementary Materials: Caffeic Acid Expands Anti-Tumor Effect of Metformin in Human Metastatic Cervical Carcinoma HTB-34 Cells: Implications of AMPK Activation and Impairment of Fatty Acids De Novo Biosynthesis

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**Figure S1.** Induction of apoptosis/necrosis in HTB-34 human cervical cancer cells exposed to Met at concentration of 10 mM, CA at 100  $\mu$ M and Met/CA for 24 hours. The representative dotplots show populations of early/late apoptotic and necrotic cells in untreated HTB-34 cells (**A**), cells exposed to Met (**B**), CA (**C**) and Met/CA (**D**). The cells were stained with Annexin-V (excitation/emission 490/515 nm) and Ethidium homodimer (EthD-III, excitation/emission 528/617 nm) and gated according to forward (FSC), side scatter (SSC) and appropriate fluorescence parameters. According to manufacturer's protocol the alive cells were defined as negative for Anexin-V and EthD-III, the apoptotic cells population consisted of Anexin-V positive/EthD-III negative cells (early apoptosis) and Anexin-V/EthD-III positive cells (late apoptosis); the necrotic cells were Anexin-V negative and EthD-III positive. Additionally, SYTO 41 Blue Fluorescent Nucleic Acid Stain was used to correct discrimination between cells and debris (excitation/emission 483/503 nm). Measurements were performed using FACSCanto10C flow cytometer, with BD FACSCanto System Software (BD Biosciences Immunocytometry Systems, USA).



**Figure S2.** Effects of Met (10 mM), CA (100  $\mu$ M) and Met/CA on cell cycle distribution in HTB-34 human cervical cancer cells. The cells were exposed to Met and CA for 24 hours, harvested, incubated with KI67 antibody and stained with DAPI (excitation/emission 360/460 nm), The representative dotplots show populations of cells in G0, G1, S and G2/M phase of cell cycle in untreated cells (**A**) and after treatment of Met (**B**), CA (**C**) and Met/CA (**D**). Appropriate control dotplots for DAPI staining without KI67 antibody (**E**) and KI67 without DAPI staining (**F**) were also included. Measurements were performed using FACSCanto10C flow cytometer, with BD FACSCanto System Software (BD Biosciences Immunocytometry Systems, USA).