

## Western Blot:

Figure 2c

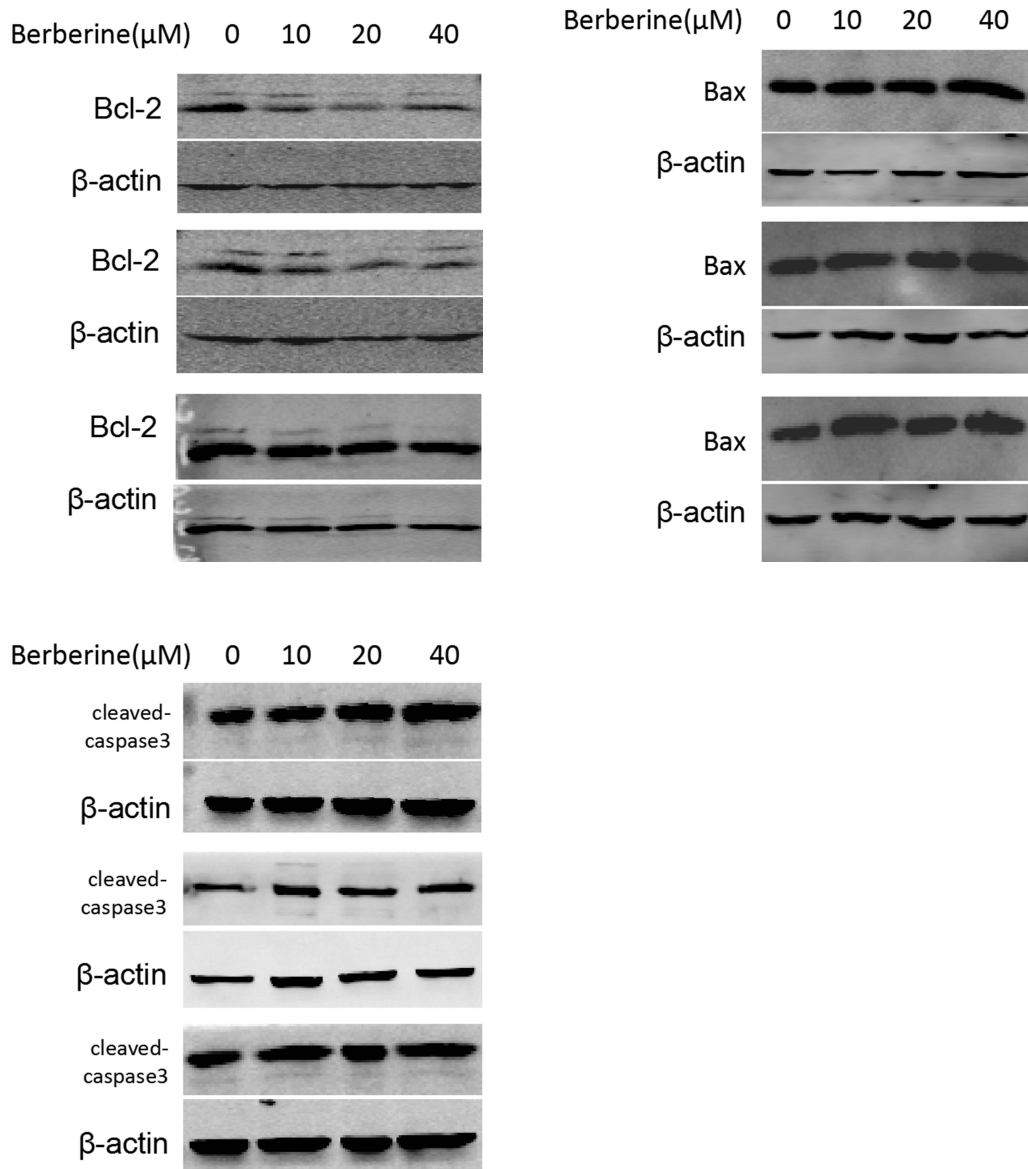


Figure 2(c). All immunoblots of protein-related proteins Bcl-2, Bax and cleaved-caspase3 of MGC803 cells after berberine treatment. Berberine treatment at 10, 20 and 40  $\mu\text{m}$  for 24h down-regulated the protein expression of anti-apoptosis protein Bcl-2 and promoted the protein expression of pro-apoptosis protein Bax and activated the expression of caspase3 protein.

Figure 3c

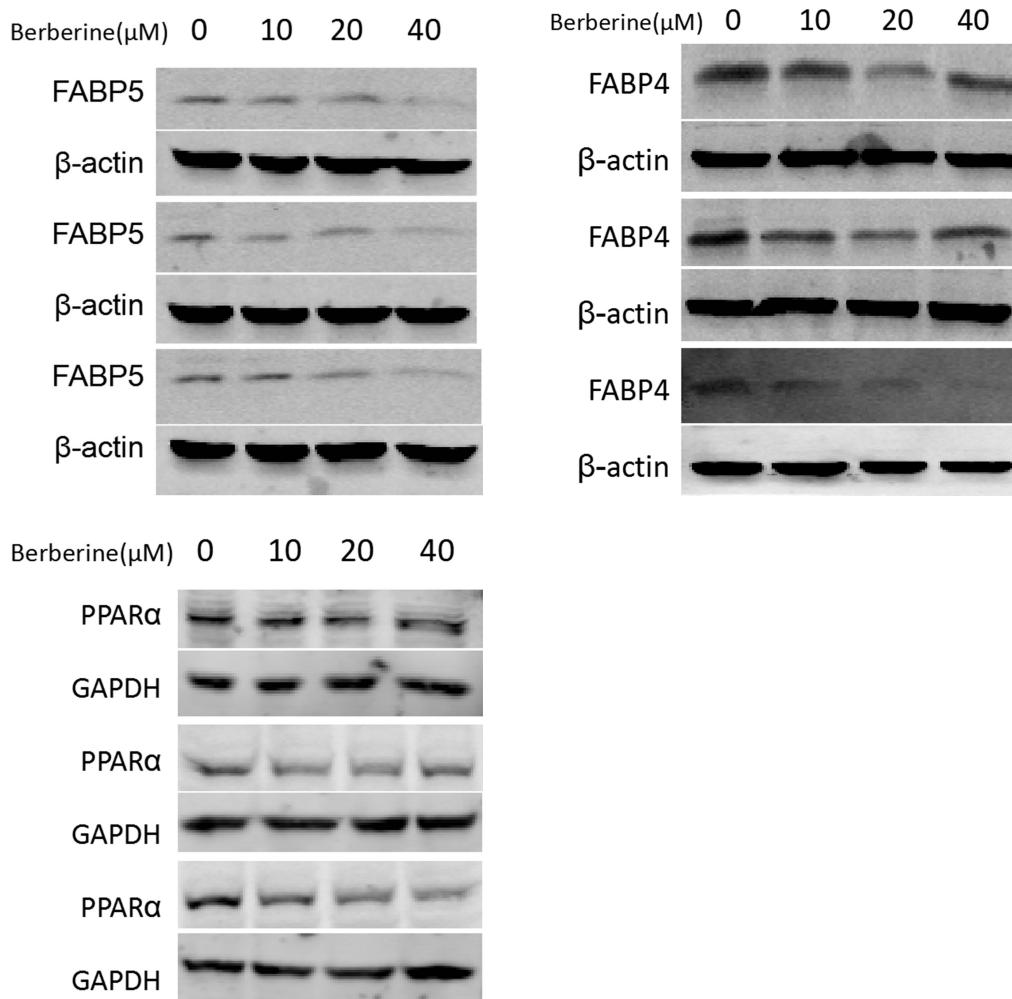
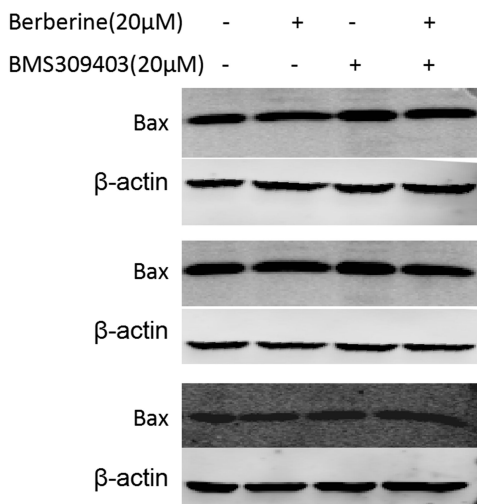


Figure 3(c). All immunoblots of key lipid metabolic enzymes FABP4, FABP5, and PPAR $\alpha$  in MGC803 cells after berberine treatment. Berberine treatment at 20 and 40 $\mu$ M for 24h suppressed the protein expression of key lipid metabolic enzymes FABP4, FABP5, and PPAR $\alpha$  in MGC803 cells.

Figure 4d



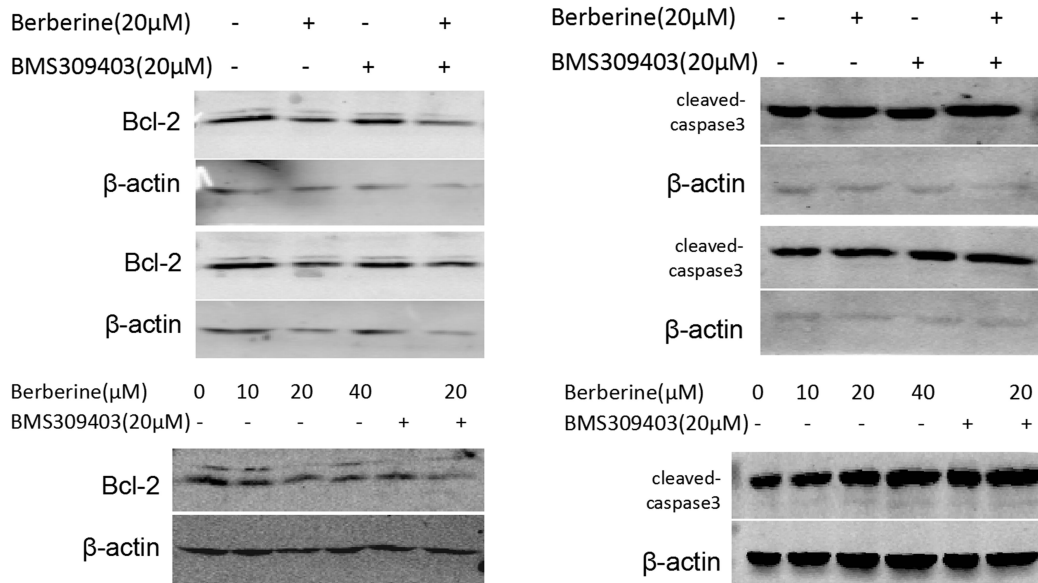


Figure 4(d). All immunoblots of Bcl-2, Bax and cleaved-caspase3 of MGC803 cells after BMS309403 treatment. BMS309403 treatment downregulated the protein expression of anti-apoptosis protein Bcl-2 and promoted the protein expression of pro-apoptosis protein Bax and activated the expression of caspase3 protein.

Figure 4f

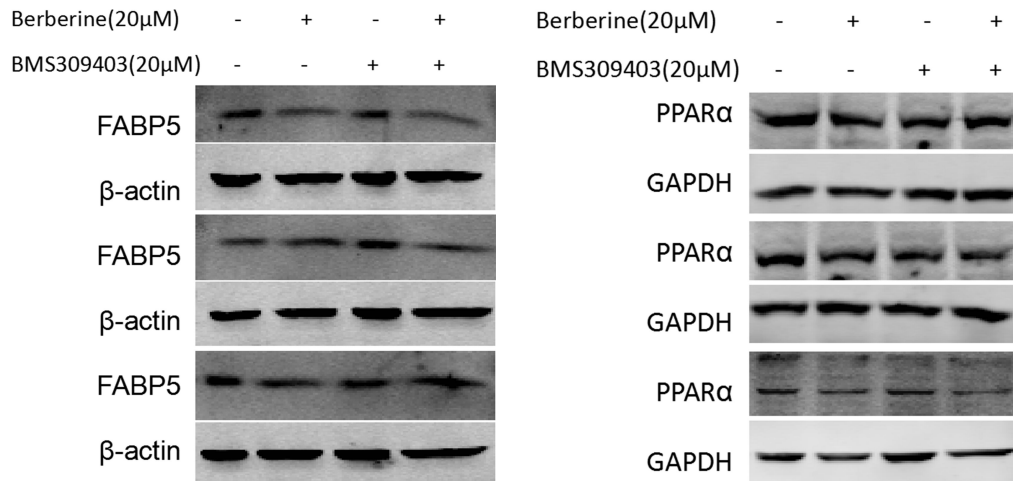


Figure 4(f). All immunoblots of key lipid metabolic enzymes FABP5 and PPARα of MGC803 cells after BMS309403 treatment. BMS309403 inhibited the protein expression of key lipid metabolic enzymes FABP5 and PPARα.

Figure 6b

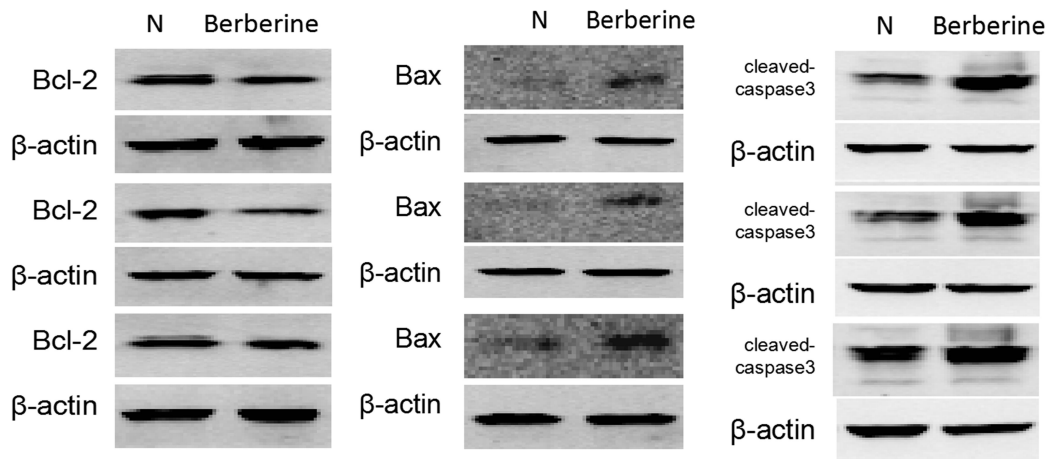


Figure 6(b). All immunoblots of apoptosis-related proteins Bcl-2, Bax and cleaved-caspase3 of MGC803 xenograft tumors. Berberine downregulated the protein expression of anti-apoptosis protein Bcl-2 and promoted the protein expression of pro-apoptosis protein Bax and activated the expression of caspase3 protein of MGC803 xenograft tumors.

Figure 7c

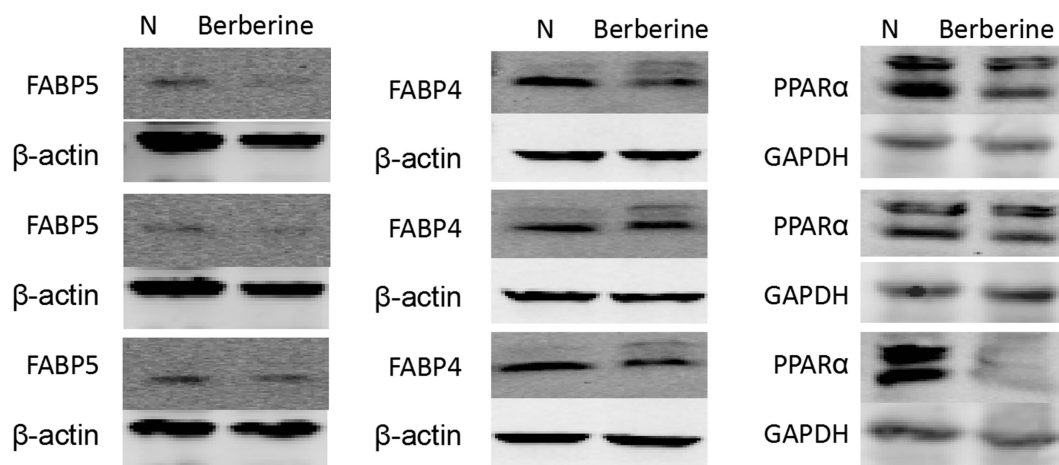


Figure 7(c). All immunoblots of key lipid metabolic enzymes FABP4, FABP5, and PPARα of MGC803 xenograft tumors. Berberine suppressed the protein expression of key lipid metabolic enzymes FABP4, FABP5, and PPARα of MGC803 xenograft tumors.