Figure S1. Flow cytometric detection of reactive oxygen species levels in transfected MIN6 cells treated with 0.5 mM PA or bovine serum albumin for 24 h. The KO525 channel was used to analyze the MIN6 cells, and representative images are presented. MIN6, mouse insulinoma 6; PA, palmitate; shc, short hairpin RNA control; sh2, protein phosphatase 2A short hairpin RNA 2.

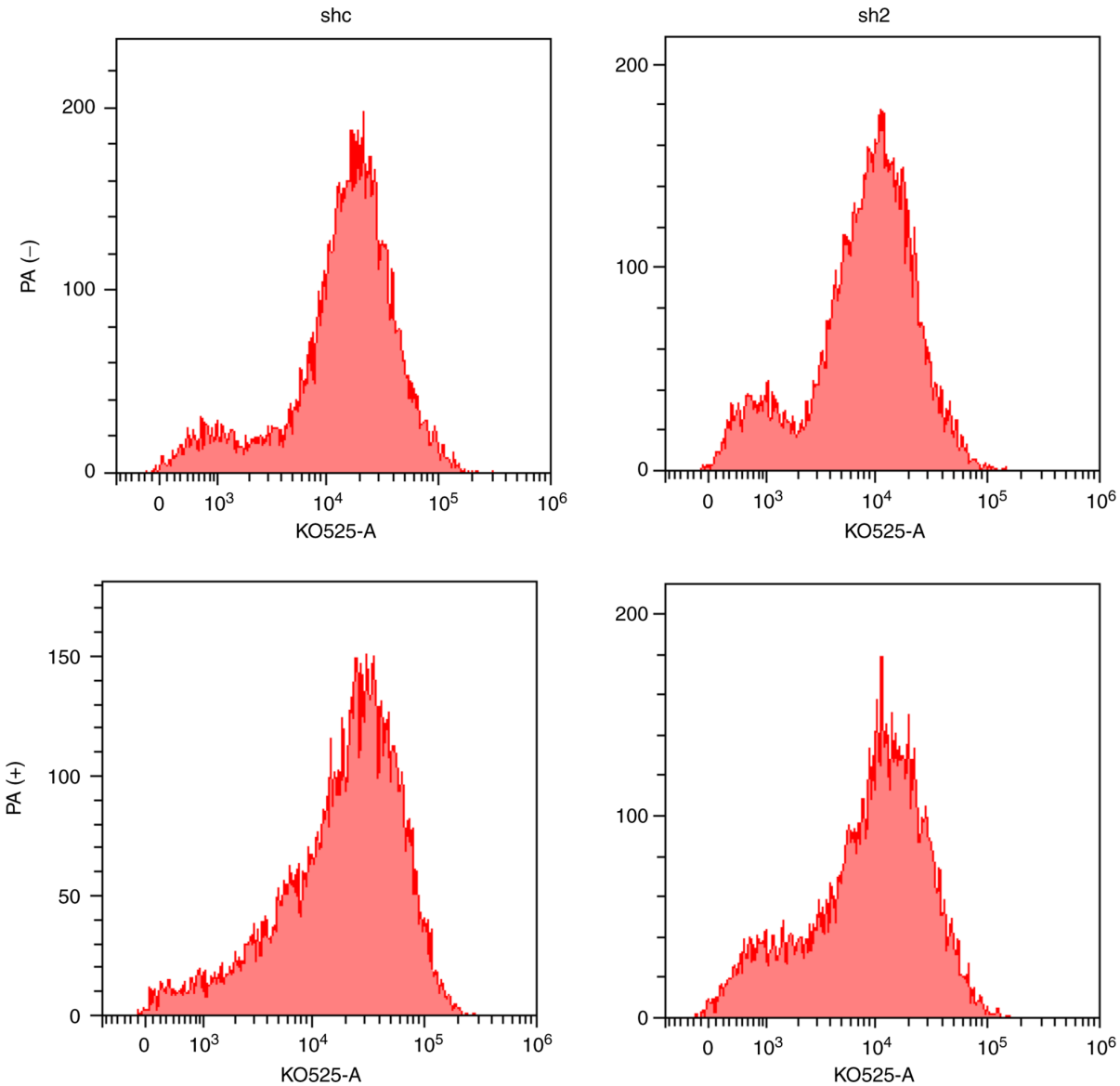

Figure S2. Flow cytometric detection of the mitochondrial membrane potential of transfected MIN6 cells treated with 0.5 mM PA or bovine serum albumin for 24 h. The PE channel was used to analyze the MIN6 cells, and representative images are presented. MIN6, mouse insulinoma 6; PA, palmitate; shc, short hairpin RNA control; sh2, protein phosphatase 2A short hairpin RNA 2.

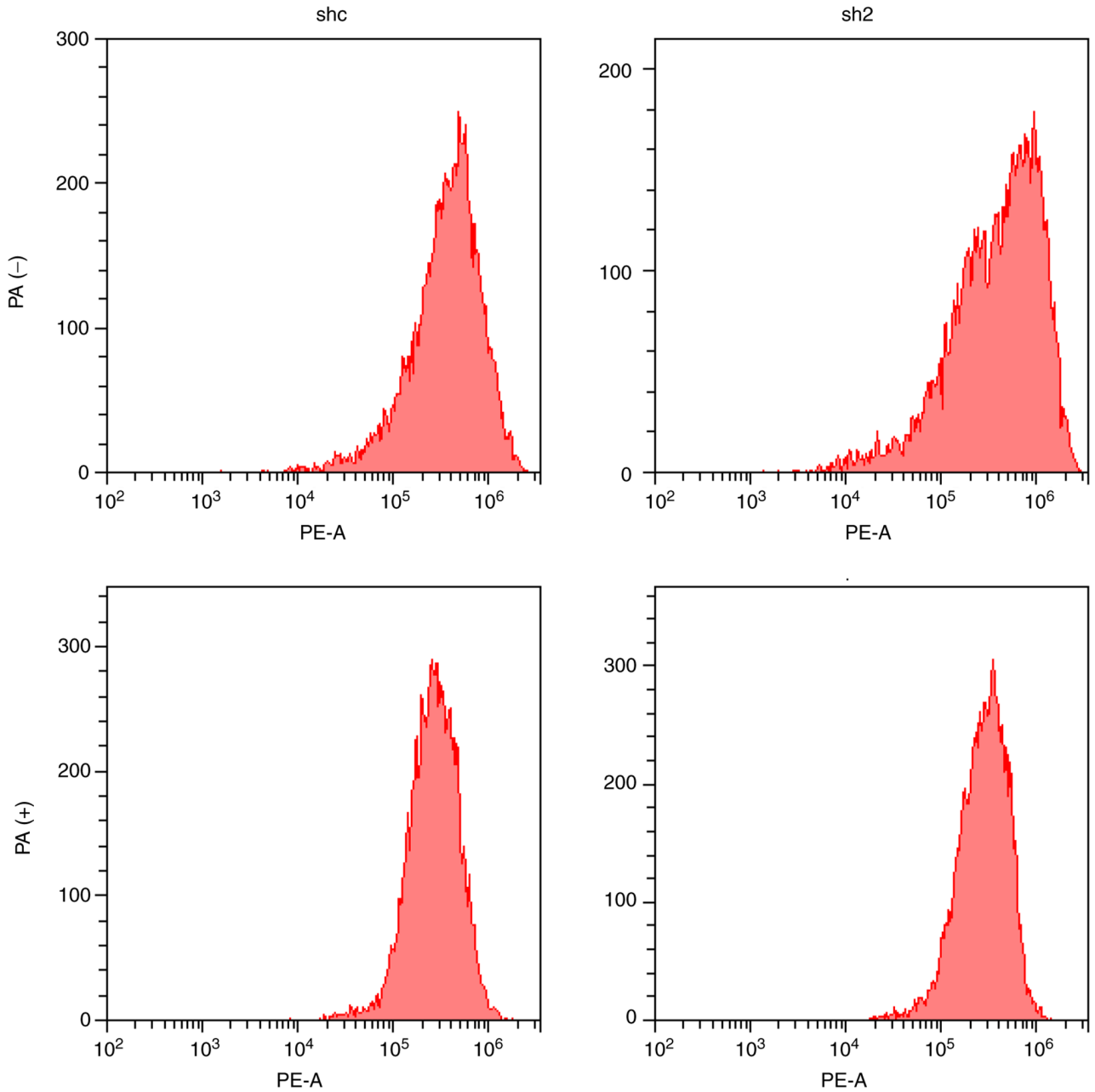

Figure S3. Flow cytometric detection of the level of apoptosis in transfected MIN6 cells treated with 0.5 mM PA or bovine serum albumin for 24 h. APC and PE dual channels were used to analyze the MIN6 cells, and representative images are presented. MIN6, mouse insulinoma 6; PA, palmitate; shc, short hairpin RNA control; sh2, protein phosphatase 2A short hairpin RNA 2.

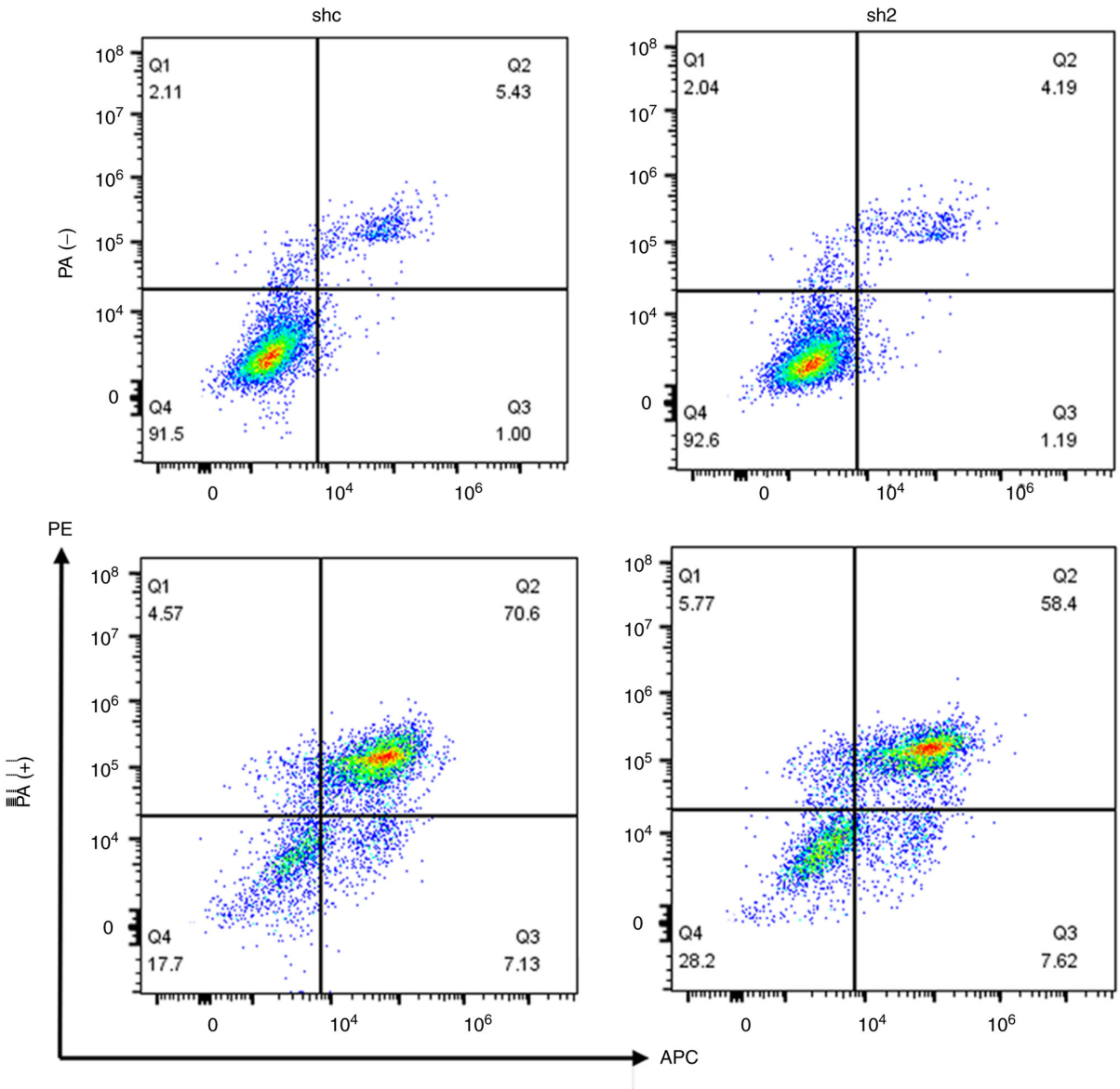

Figure S4. Volcano plot showing the up- and downregulation of genes detected by the mRNA sequencing analysis of MIN6 cells with PP2A knockdown. MIN6, mouse insulinoma 6; group, MIN6 cells transfected with PP2A shRNA; control, MIN6 cells transfected with short hairpin control; padj, adjusted P-value.

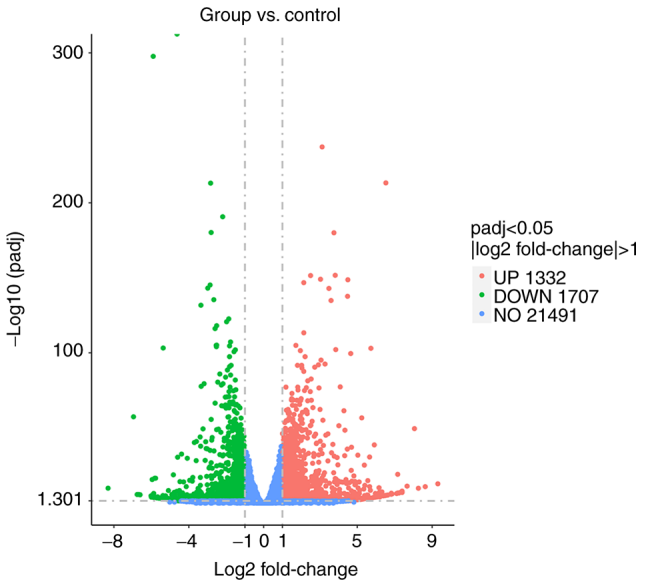

Figure S5. Kyoto Encyclopedia of Genes and Genomes pathway enrichment analysis of MIN6 cells with protein phosphatase 2A knockdown. The MAPK pathway was selected for verification by western blotting of the MIN6 cells. MIN6, mouse insulinoma 6; padj, adjusted P-value.