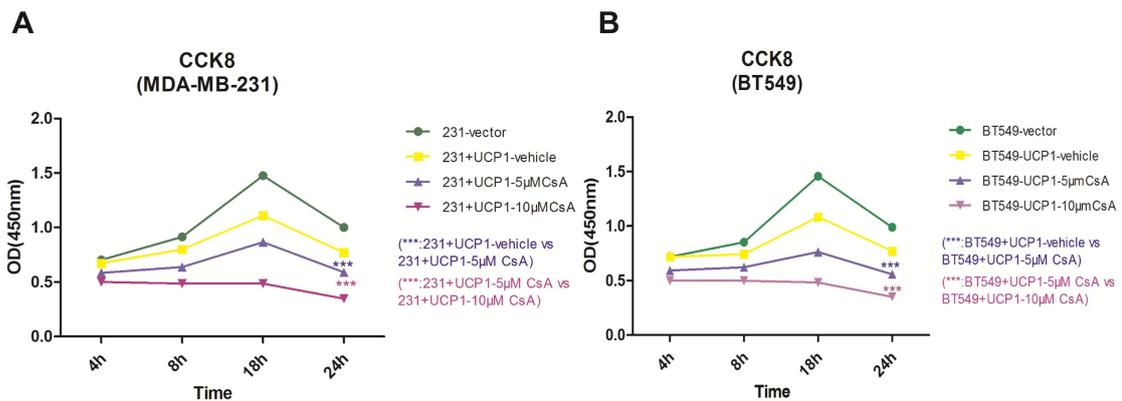
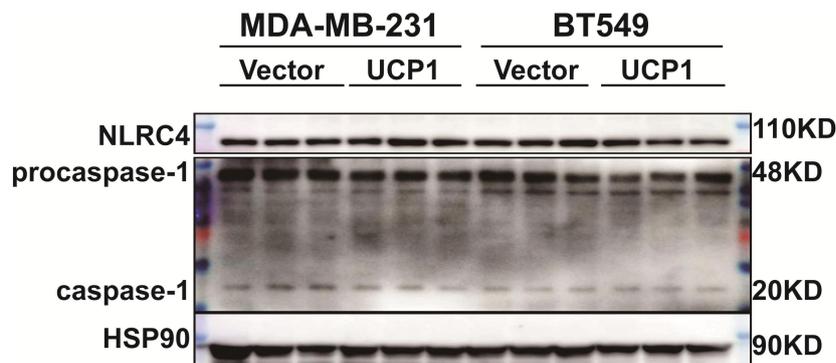


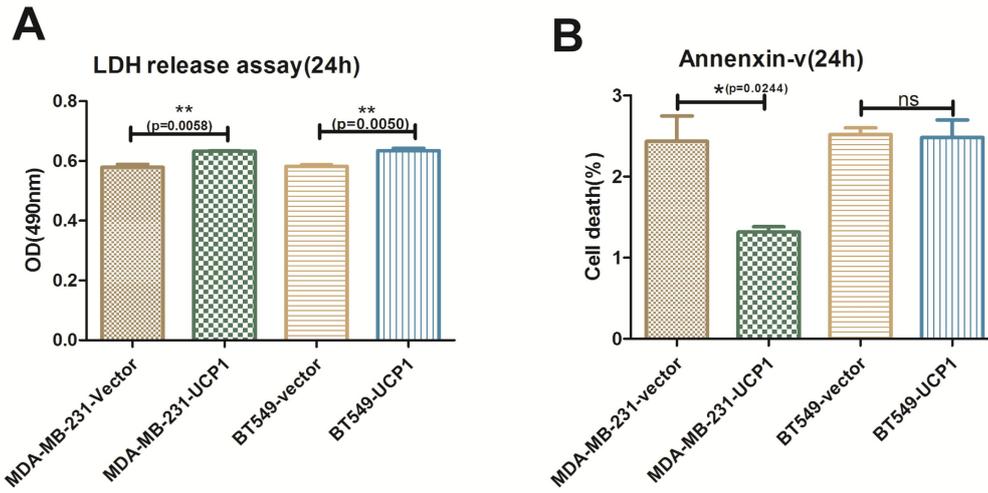
Supplementary figure 1. UCP1 was overexpressed successfully and negative related to cell cycle pathway. **(A)** Protein expression of UCP1 in MDA-MB-231 and BT549 with vector or UCP1 overexpressed. **(B)** KEGG enrichment analysis of UCP1 on breast cancer in cell cycle pathway. cut off value: fold change > 2 and $p < 0.05$.



Supplementary figure 2. Proliferation potential of TNBC cell line with UCP1 overexpressed did not change after CsA treated. **(A)** CCK8 assay of MDA-MB-231 and **(B)** BT549 cells with treated as described. (***) $p < 0.01$



Supplementary figure 3. NLRC4 and caspase-1 did not change after UCP1 overexpressed. Protein expression of NLRC4 and caspase-1 in MDA-MB-231 and BT549 with vector or UCP1 overexpressed.



Supplementary figure 4. Non-apoptosis pathway may be activated after UCP1 overexpression in TNBC. (A) LDH release of MDA-MB-231 and BT549 with vector or UCP1 overexpression. (B) Cell apoptosis rate of MDA-MB-231 and BT549 with vector or UCP1 overexpression. *: $p < 0.05$, **: $p < 0.01$