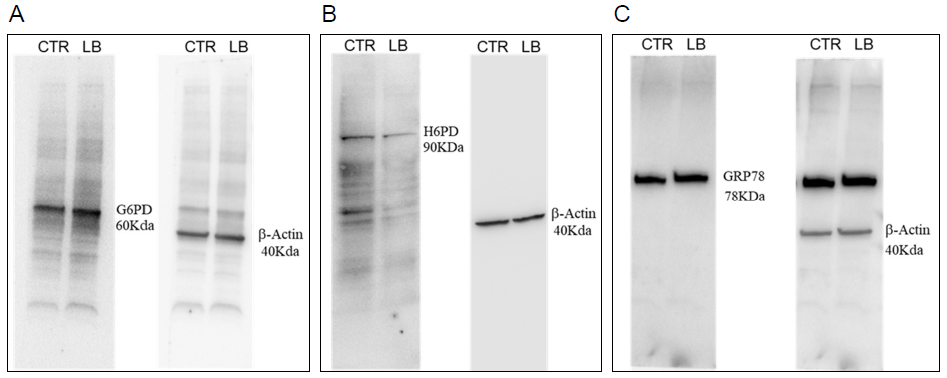
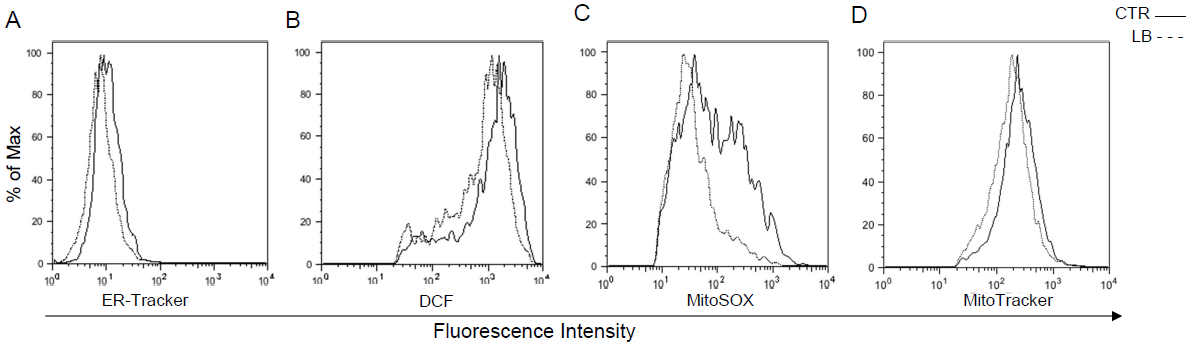


**Supplementary Fig. 1.** Representative dot plots and histograms of data show in Fig. 1B and C. (A, B) Dot plots and histograms of cell viability (A) and cell proliferation (B) in MCF7 cells under CTR (solid line) or LB (dashed line) condition.



**Supplementary Fig. 2. Original Western blots shown in Fig. 2 A, B and D.** (A-C) Original Western blot of G6PD and relative -Actin (A), H6PD and relative -Actin (B) and GRP78 and relative -Actin (C) in MCF7 cells under CTR or LB condition.



**Supplementary Fig. 3.** **Representative histrogram of fluorescence intensity show in Fig 2C and E-G**. (A-D) Fluorescent signals of ER-Tracker (A), DCF (B), MitoSOX (C) and MitoTracker (D) in MCF-7 cultured in CTR (solid line) or LB (dashed line) medium.