Supplementary Figure S1

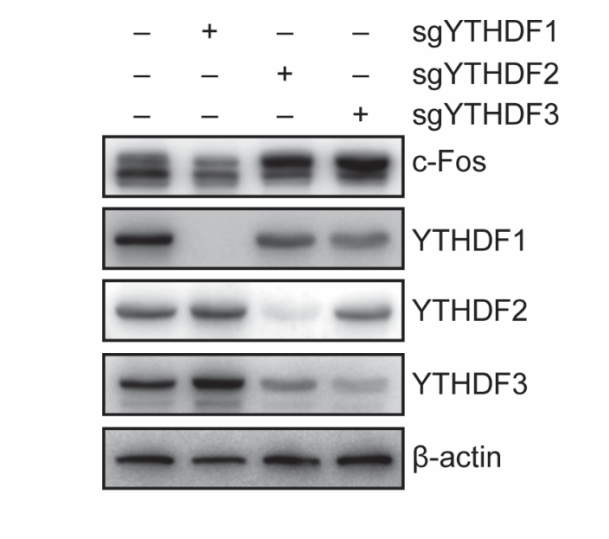


Figure S1. YTHDF1, but not YTHDF2 or YTHDF3, regulates c-Fos expression. MCF7 cells were co-transfected with two sgRNA vectors targeting the indicated gene, while control cells were transfected with an empty vector. Whole-cell lysates were analyzed by western blotting using the specified antibodies.

Supplementary Figure S2

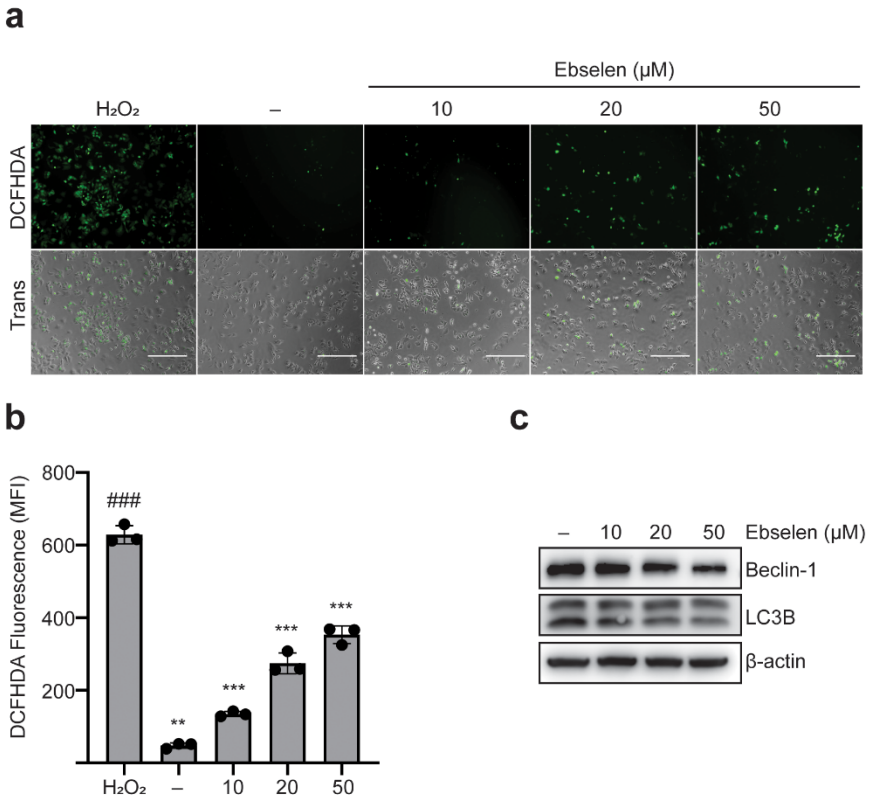


Figure S2. Effect of ebselen treatment in ROS generation and autophagy. **(a-b)** Ebselen promotes ROS production. MCF7 cells were pre-treated with given concentration of ebselen for 48 h, followed by incubation with 25 μM 2′,7′-dichlorodihydrofluorescein diacetate (DCFH-DA) for 30 min. As a positive control, cells were pre-treated with 1 mM hydrogen peroxide (H_2O_2) prior to DCFH-DA addition. Representative fluorescent and corresponding phase contrast images of ROS detection (a), and quantification of mean fluorescence intensity (MFI) using Fiji (b). Data are presented as mean ± SD; n = 3. ANOVA, **P < 0.01, ***P < 0.001, ### P < 0.001 (compared to control). Scale bar, 300 μM. **(c)** Ebselen inhibits autophagy induction. MCF7 cells were treated with given concentration of ebselen for 48h**.** The whole cell lysate was examined with western blotting using indicated antibodies.