**Supplemental Fig. 1** Effects of the inhibitors of MAPK and Nrf2 pathways on the MAPK and Nrf2 pathways in HC11 cells. HC11 cells were treated with or without an individual inhibitor for 24 h. (A) Representative grayscale photographs of immunoblots. (B-K) Quantitative protein expression of (B) p-p38/p38, (C) p38, (D) p-p38, (E) p-JNK/JNK, (F) JNK and (G) p-JNK (H) p-ERK/ERK, (I) ERK, (J) p-ERK and (K) NQO1. T-test was used to determine the differences between two groups. Data represents the mean ± SEM. Data marked with different lowercase letters (a, b) indicated *P* <0.05.

**Supplemental Table 1.** Primary antibodies used in Western blot

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Protein | Supplier | Item NO. | Molecular Weight | Dilution |
| xCT | ABCAM | [ab175186](https://www.ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucleotide&id=254939638) | 55kDa | 1:5000 |
| GCLM | HuaAn Biotechnology | [ET1705-87](https://www.ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucleotide&id=54607097) | 31kDa | 1:1000 |
| TXNRD1 | ABCAM | [ab168](https://www.ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucleotide&id=254939638)40 | 55kDa | 1:2000 |
| BCL-2 | ABCAM | [ab182858](https://www.ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucleotide&id=254939638) | 26kDa | 1:2000 |
| BAX | ABCAM | [ab32503](https://www.ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucleotide&id=254939638) | 21kDa | 1:5000 |
| NRF2 | ABCAM | [ab62352](https://www.ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucleotide&id=254939638) | 110kDa | 1:500 |
| p-NRF2  | ABCAM | [ab76026](https://www.ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucleotide&id=254939638) | 110kDa | 1:10000 |
| p-P38 | ABCAM | [ab4822](https://www.ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucleotide&id=254939638) | 38kDa | 1:1000 |
| P38 | ABCAM | [ab170099](https://www.ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucleotide&id=254939638) | 38kDa | 1:3000 |
| ERK | ABCAM | [ab184699](https://www.ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucleotide&id=254939638) | 43kDa | 1:10000 |
| p-ERK | ABCAM | [ab201015](https://www.ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucleotide&id=254939638) | 43kDa | 1:1000 |
| JNK | HuaAn Biotechnology | [RT1550](https://www.ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucleotide&id=576080554) | 46/54kDa | 1:1000 |
| p-JNK  | Cell Signaling Technology | [4668](https://www.ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucleotide&id=324710985) | 46/54kDa | 1:1000 |
| NQO1 | ABCAM | [ab80588](https://www.ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucleotide&id=254939638) | 31kDa | 1:10000 |
| β-actin | HuaAn Biotechnology | [R1207-1](https://www.ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucleotide&id=1243938591) | 42kDa | 1:3000 |