**Table S1. Sequences of primers used for quantitative real-time PCR.**

|  |  |
| --- | --- |
| **Gene** | **Sequences of primers** |
| GAPDH | Forward:5,-ATCAATGGAAATCCCATCACCAReverse:5,-GACTCCACGACGTACTCAGCG |
| FKBP8 | Forward:5,-CTCCTGCAGTTGAAGGTGAAReverse:5,-CGGAAGAGAGCCTTGATGTT |
| GPX4  | Forward:5,-TCAGCAAGATCTGCGTGAAC Reverse:5,-GGGGCAGGTCCTTCTCTATC |

**Table S2. The expression of GPX4 in TC and the association between GPX4 expression and the clinicopathological features.**

|  |  |  |  |
| --- | --- | --- | --- |
| **Variable** | **Number** | **GPX4 Expression** | ***P*-value** |
| **Low (≤3)** | **High (>3)** |
| **Sex** |  |  |  | 0.796 |
| Male | 42 | 22 | 20 |  |
| Female | 117 | 64 | 53 |  |
| **Age (years)** |  |  |  | **< 0.001** |
| <55 | 73 | 53 | 20 |  |
| ≥55 | 86 | 33 | 53 |  |
| **Stage N** |  |  |  | **< 0.001** |
| N0 | 69 | 53 | 16 |  |
| N1 | 90 | 33 | 57 |  |
| **Clinical stage** |  |  |  | **< 0.001** |
| Ⅰ+Ⅱ | 99 | 77 | 22 |  |
| Ⅲ+Ⅳ | 60 | 9 | 51 |  |
| **Histological subtype** |  |  |  | **< 0.001** |
| MTC | 47 | 24 | 23 |  |
| ATC | 8 | 1 | 7 |  |
| FTC | 39 | 33 | 6 |  |
| PTC | 65 | 28 | 37 |  |

**Table S3. The expression of FKBP8 in TC and the association between FKBP8 expression and the clinicopathological features.**

|  |  |  |  |
| --- | --- | --- | --- |
| **Variable** | **Number** | ***FKBP8* Expression** | ***P*-value** |
| **Low (≤3)** | **High (>3)** |
| **Sex** |  |  |  | 0.089 |
| Male | 42 | 6 | 36 |  |
| Female | 117 | 32 | 85 |  |
| **Age (years)** |  |  |  | **< 0.001** |
| <55 | 73 | 28 | 45 |  |
| ≥55 | 86 | 10 | 76 |  |
| **Stage N** |  |  |  | **0.021** |
| N0 | 69 | 22 | 47 |  |
| N1 | 90 | 15 | 75 |  |
| **Clinical stage** |  |  |  | **< 0.001** |
| Ⅰ+Ⅱ | 99 | 34 | 65 |  |
| Ⅲ+Ⅳ | 60 | 4 | 56 |  |
| **Histological subtype** |  |  |  | **0.006** |
| MTC | 47 | 9 | 38 |  |
| ATC | 8 | 0 | 8 |  |
| FTC | 39 | 17 | 22 |  |
| PTC | 65 | 12 | 53 |  |