

Supplementary Figures

A

Association between PRDX1 expression and clinical characteristics in LUAD by logistic regression in the TCGA database.

| Characteristics | Total (N) | OR (95% CI) | P value |
|--------------------------------------|-----------|-----------------------|---------|
| Pathologic T stage (T2&T3&T4 vs. T1) | 536 | 1.469 (1.022 – 2.112) | 0.038 |
| Pathologic M stage (M1 vs. M0) | 390 | 1.602 (0.690 – 3.718) | 0.273 |
| Pathologic N stage (N1&N2&N3 vs. N0) | 523 | 1.667 (1.153 – 2.410) | 0.007 |
| Gender (Male vs. Female) | 539 | 1.224 (0.872 – 1.718) | 0.243 |
| Age (> 65 vs. ≤ 65) | 520 | 0.898 (0.637 – 1.267) | 0.542 |
| Smoker (Yes vs. No) | 525 | 0.957 (0.590 – 1.552) | 0.859 |

C

Association between PRDX3 expression and clinical characteristics in LUAD by logistic regression in the TCGA database.

| Characteristics | Total (N) | OR (95% CI) | P value |
|--------------------------------------|-----------|-----------------------|---------|
| Pathologic T stage (T2&T3&T4 vs. T1) | 536 | 1.746 (1.212 – 2.515) | 0.003 |
| Pathologic M stage (M1 vs. M0) | 390 | 2.193 (0.894 – 5.377) | 0.086 |
| Pathologic N stage (N1&N2&N3 vs. N0) | 523 | 1.246 (0.864 – 1.795) | 0.239 |
| Gender (Male vs. Female) | 539 | 1.422 (1.012 – 1.998) | 0.042 |
| Age (> 65 vs. ≤ 65) | 520 | 1.132 (0.802 – 1.596) | 0.481 |
| Smoker (Yes vs. No) | 525 | 1.255 (0.772 – 2.039) | 0.359 |

E

Association between PRDX5 expression and clinical characteristics in LUAD by logistic regression in the TCGA database.

| Characteristics | Total (N) | OR (95% CI) | P value |
|--------------------------------------|-----------|-----------------------|---------|
| Pathologic T stage (T2&T3&T4 vs. T1) | 536 | 1.011 (0.705 – 1.450) | 0.952 |
| Pathologic M stage (M1 vs. M0) | 390 | 1.807 (0.779 – 4.195) | 0.168 |
| Pathologic N stage (N1&N2&N3 vs. N0) | 523 | 1.189 (0.825 – 1.712) | 0.353 |
| Gender (Male vs. Female) | 539 | 0.782 (0.557 – 1.098) | 0.155 |
| Age (> 65 vs. ≤ 65) | 520 | 0.871 (0.617 – 1.228) | 0.43 |
| Smoker (Yes vs. No) | 525 | 0.523 (0.317 – 0.862) | 0.011 |

B

Association between PRDX2 expression and clinical characteristics in LUAD by logistic regression in the TCGA database.

| Characteristics | Total (N) | OR (95% CI) | P value |
|--------------------------------------|-----------|-----------------------|---------|
| Pathologic T stage (T2&T3&T4 vs. T1) | 536 | 1.357 (0.945 – 1.949) | 0.098 |
| Pathologic M stage (M1 vs. M0) | 390 | 1.085 (0.480 – 2.455) | 0.844 |
| Pathologic N stage (N1&N2&N3 vs. N0) | 523 | 1.536 (1.064 – 2.218) | 0.022 |
| Gender (Male vs. Female) | 539 | 1.119 (0.798 – 1.570) | 0.515 |
| Age (> 65 vs. ≤ 65) | 520 | 0.831 (0.589 – 1.173) | 0.293 |
| Smoker (Yes vs. No) | 525 | 0.548 (0.333 – 0.900) | 0.018 |

D

Association between PRDX4 expression and clinical characteristics in LUAD by logistic regression in the TCGA database.

| Characteristics | Total (N) | OR (95% CI) | P value |
|--------------------------------------|-----------|-----------------------|---------|
| Pathologic T stage (T2&T3&T4 vs. T1) | 536 | 2.031 (1.405 – 2.934) | < 0.001 |
| Pathologic M stage (M1 vs. M0) | 390 | 0.934 (0.415 – 2.102) | 0.869 |
| Pathologic N stage (N1&N2&N3 vs. N0) | 523 | 1.351 (0.937 – 1.947) | 0.107 |
| Gender (Male vs. Female) | 539 | 1.510 (1.075 – 2.123) | 0.018 |
| Age (> 65 vs. ≤ 65) | 520 | 0.912 (0.646 – 1.286) | 0.598 |
| Smoker (Yes vs. No) | 525 | 1.017 (0.627 – 1.650) | 0.945 |

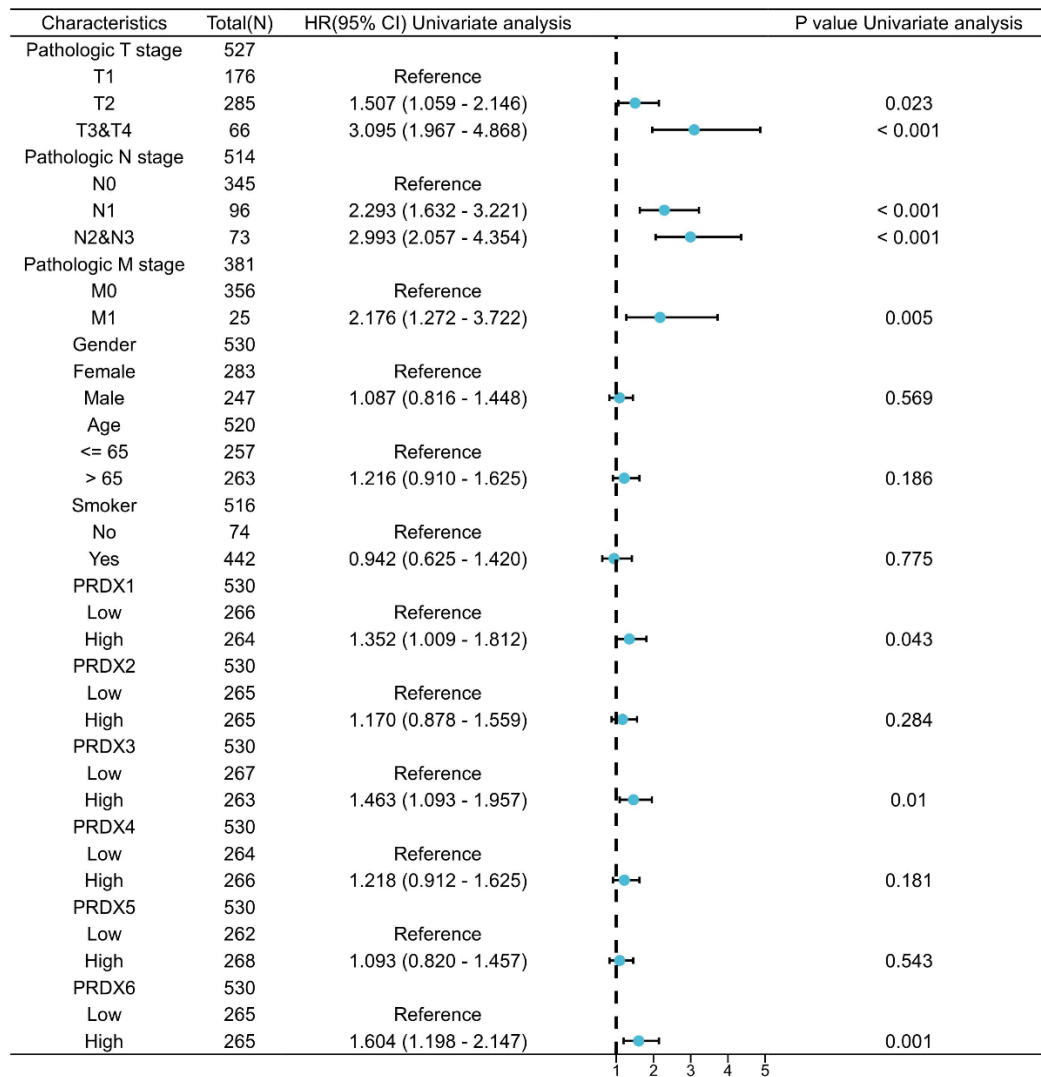
F

Association between PRDX6 expression and clinical characteristics in LUAD by logistic regression in the TCGA database.

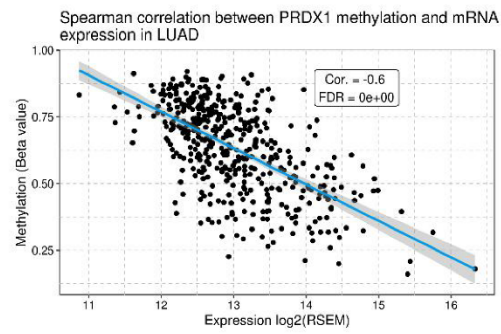
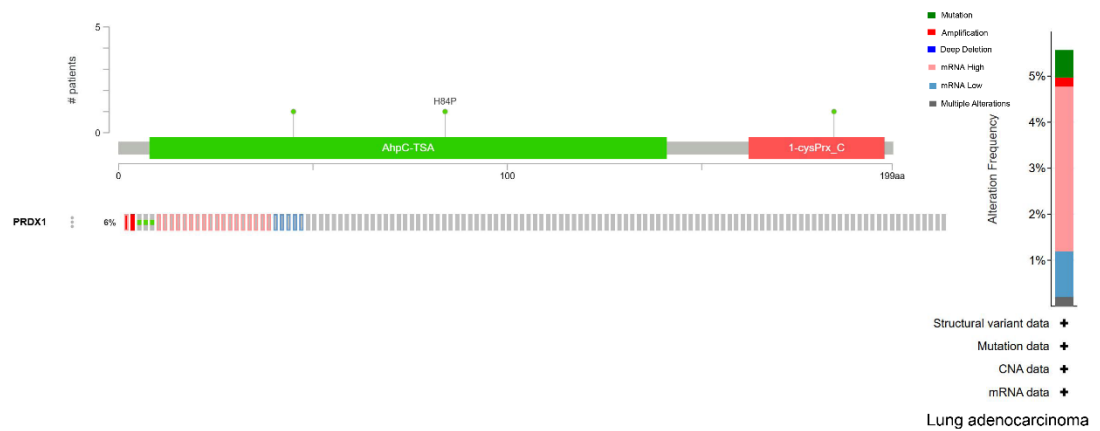
| Characteristics | Total (N) | OR (95% CI) | P value |
|--------------------------------------|-----------|-----------------------|---------|
| Pathologic T stage (T2&T3&T4 vs. T1) | 536 | 1.297 (0.903 – 1.862) | 0.159 |
| Pathologic M stage (M1 vs. M0) | 390 | 2.949 (1.151 – 7.553) | 0.024 |
| Pathologic N stage (N1&N2&N3 vs. N0) | 523 | 1.189 (0.825 – 1.712) | 0.353 |
| Gender (Male vs. Female) | 539 | 1.422 (1.012 – 1.998) | 0.042 |
| Age (> 65 vs. ≤ 65) | 520 | 1.080 (0.766 – 1.524) | 0.66 |
| Smoker (Yes vs. No) | 525 | 1.322 (0.813 – 2.151) | 0.26 |

Supplementary Figure 1: Association between PRDX1-6 expression and clinical characteristics in LUAD. (A-F) Correlation between PRDX1-6 expression and clinical characteristics in LUAD analyzed by logistic regression in the TCGA database.

A



Supplementary Figure 2: Independent prognostic risk factors for OS in patients with LUAD. (A) Independent prognostic risk factors for OS in patients with LUAD identified by univariate regression analysis of TCGA-LUAD dataset.

A**B**

Supplementary Figure 3: Methylation analysis and mutant landscape of PRDX1. (A) Correlation between PRDX1 expression and methylation analyzed in GSCA database. (B) Main mutation sites of PRDX1 genome alterations and mutant landscape of PRDX1 identified in cBioportal website.