

Description of Additional Supplementary Files

File Name: Supplementary Data 1

Description: The demographic and clinicopathological information of 18 ESCC patients with neoadjuvant immunochemotherapy enrolled in single-cell analysis.

File Name: Supplementary Data 2

Description: Quality measures of scRNA-seq experiments.

File Name: Supplementary Data 3

Description: Cell composition analysis.

File Name: Supplementary Data 4

Description: Top 50 differentially expressed genes for specific cell clusters conducted with ssGSEA analysis.

File Name: Supplementary Data 5

Description: The demographic and clinicopathological information of paired pre- and post-treatment FFPE samples from 96 ESCC patients with neoadjuvant immunochemotherapy.

File Name: Supplementary Data 6

Description: TCR typing of individual T cells.

File Name: Supplementary Data 7

Description: The differentially expressed genes of malignant epithelial cells between post-treatment responders and non-responders.

File Name: Supplementary Data 8

Description: Source Data

[File Name: Supplementary Software 1](#)

Description: The source code employed for data processing and analysis in this study.

File Name: Publication License

Description: Publication Licenses for Figure 1a and 3a that contain modified images from BioRender (<https://www.biorender.com/>).