

Figure S1. Flow diagram showing patient selection for the retrospective cohort of ESCC. A total of 109 patients with ESCC receiving radiotherapy from January 2010 to December 2024 underwent step-wise screening. Patients were excluded due to mixed histology (n=6), prior other malignancy (n=9), inadequate tissue samples or non-evaluable SGPP1 IHC (n=14), and incomplete clinical/follow-up data (n=12). Finally, 68 patients were included for IHC detection and prognostic analysis. ESCC, esophageal squamous cell carcinoma; SGPP1, sphingosine-1-phosphate phosphatase 1; IHC, immunohistochemistry.

Patient-selection flow diagram

