

Supporting Information

A Positive Feedback Loop between TNS1 and ZEB1 Promotes TGF β -induced Epithelial-to-Mesenchymal Transition in Lung Cancer

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Running title: A feedback loop between TNS1 and ZEB1 in EMT.

This PDF file includes:

Supplementary Figure 1

Supplementary Figure 2

Supplementary Figure 3

Supplementary Figure 4

Supplementary Figure 5

Supplementary Figure 1

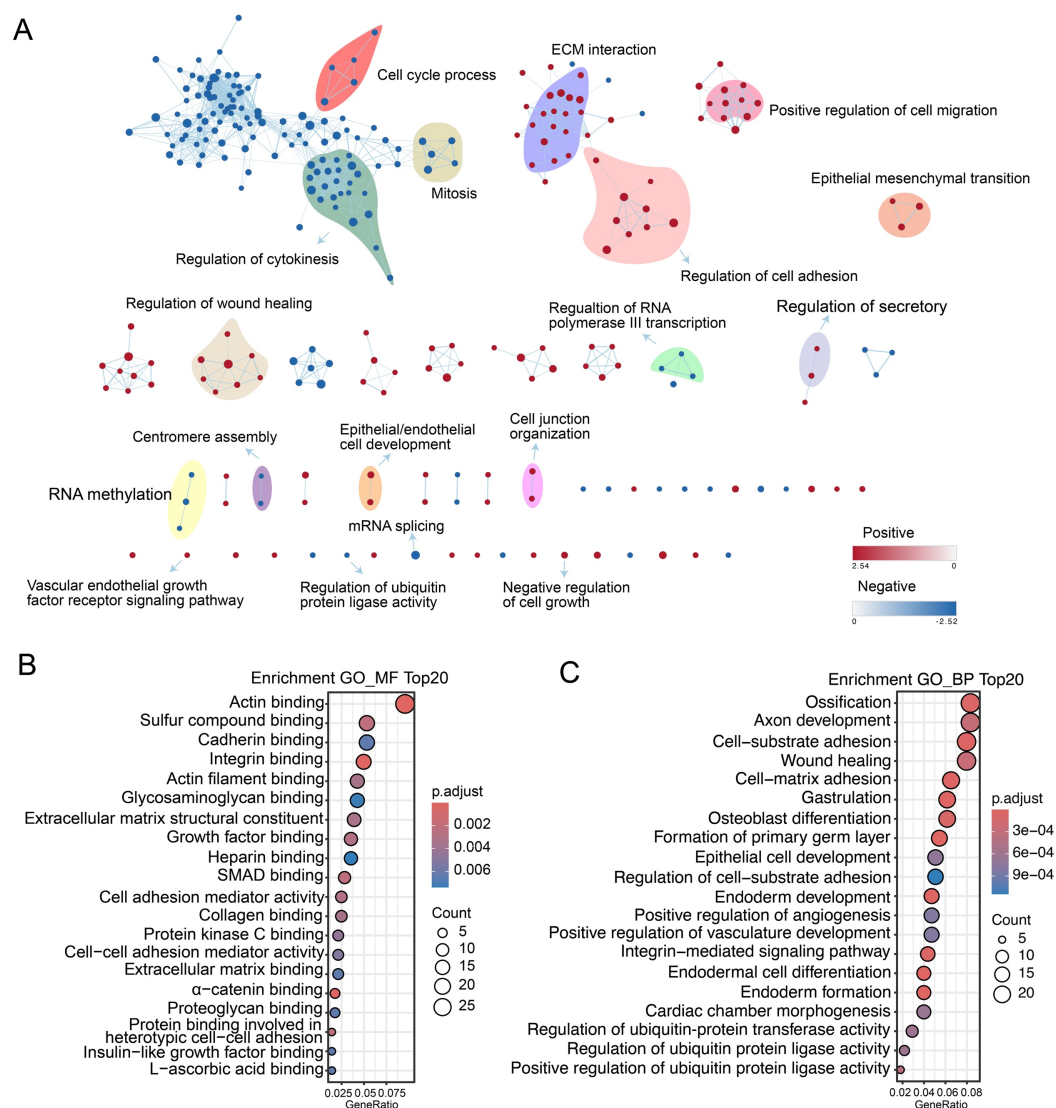


Fig. S1 Proteomic profiling of TGF β -induced EMT in A549 cells. A GSEA pathway network showing enriched pathways in TGF β -treated versus untreated cells. Each gene set was represented as a node, with the size scaling according to the number of genes in the gene set, and the degree of overlap between gene sets were depicted as the thickness of edges. Colors were mapped to normalized enrichment scores (NES), where the red color indicated up-regulated gene sets, while the blue color indicated down-regulated gene sets. **B, C** GO molecular function (B) and biological processes (C) analysis of DEPs.

Supplementary Figure 2

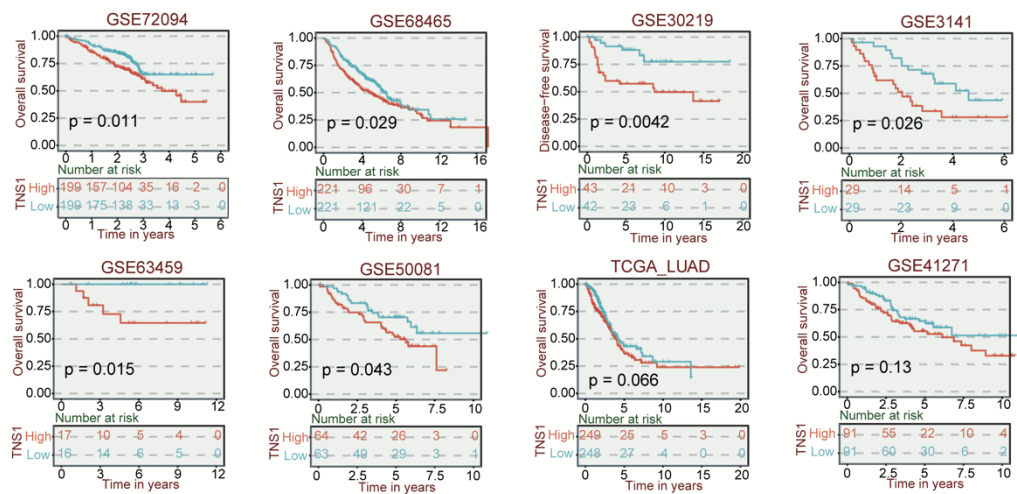


Figure S2. Kaplan-Meier curve analysis of lung cancer patients stratified by TNS1 expression in different datasets.

Supplementary Figure 3

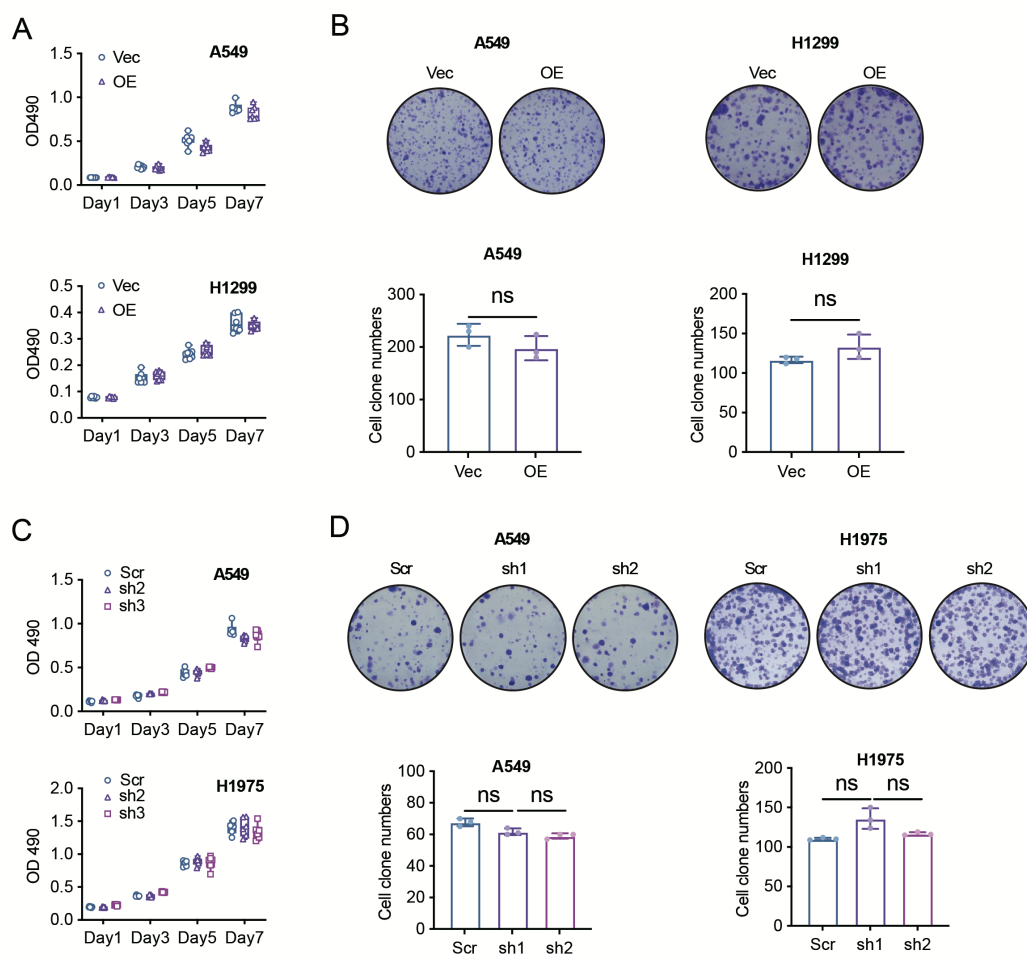


Figure S3. Effects of TNS1 expression on cell proliferation. **A, B** Proliferation of A549 and H1299 cells with or without TNS1 overexpression, measured by MTT assay (n=6) (**A**) and colony formation (n=3) (**B**). **C, D** Proliferation of A549 and H1975 cells with or without TNS1 knockdown, assessed by MTT assay (n=6) (**C**) and colony formation (n=3) (**D**). Representative images were shown. Student's *t*-test was used for statistical analysis between two groups. ns, not significant.

Supplementary Figure 4

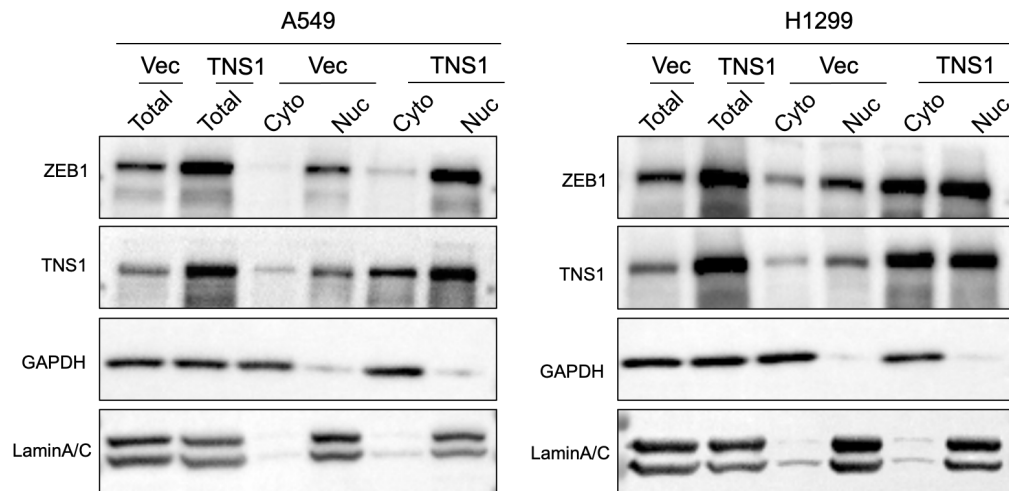


Figure S4. Subcellular localization of TNS1 and ZEB1 in lung cancer cells. Western blot analysis of cytoplasmic (Cyto) and nuclear (Nuc) fractions from A549 and H1299 cells with or without TNS1 overexpression. GAPDH and Lamin A/C serve as cytoplasmic and nuclear markers, respectively. Total cell lysates (Total) are included as controls.

Supplementary Figure 5

Uncropped original western blots

Figure 1C

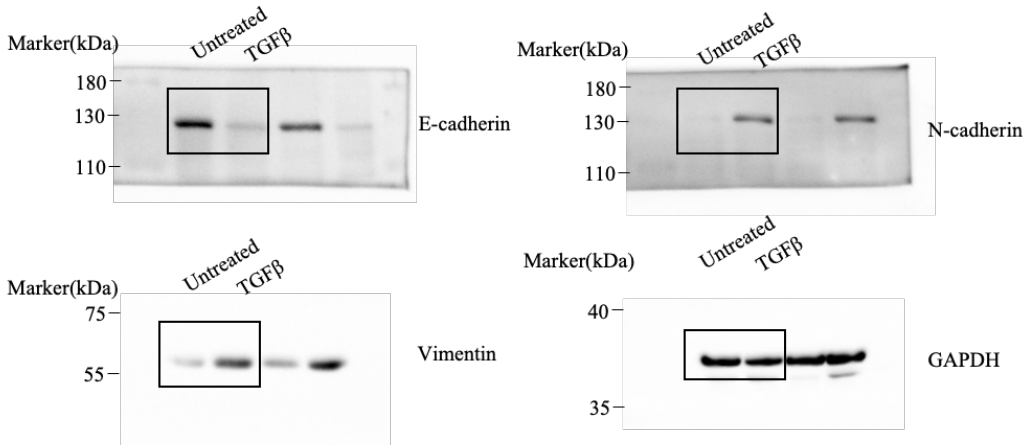


Figure 1F

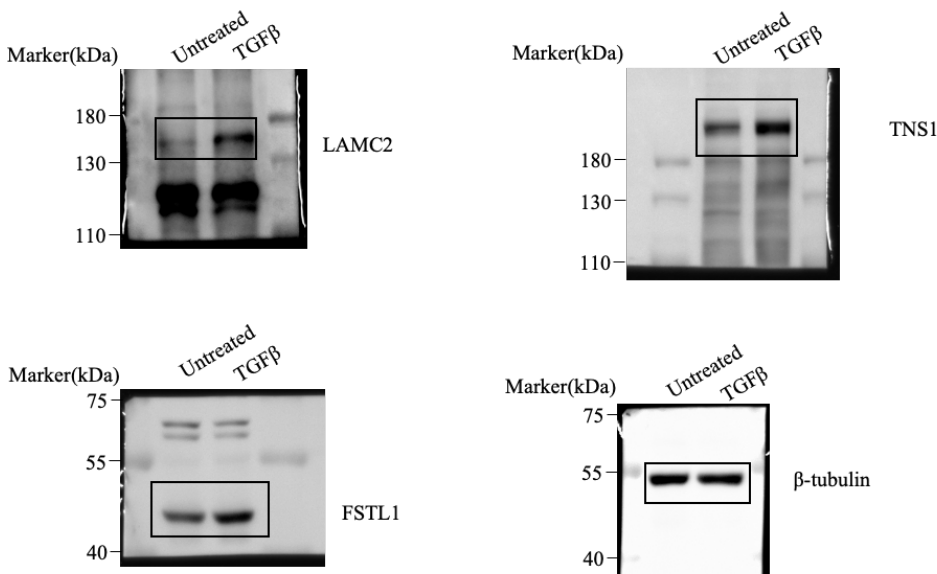
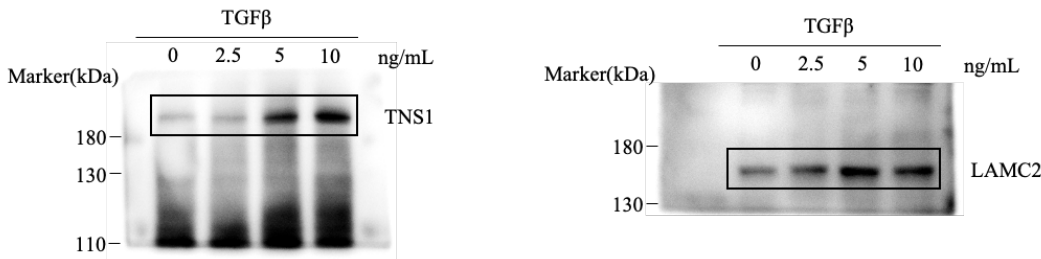


Figure 1G



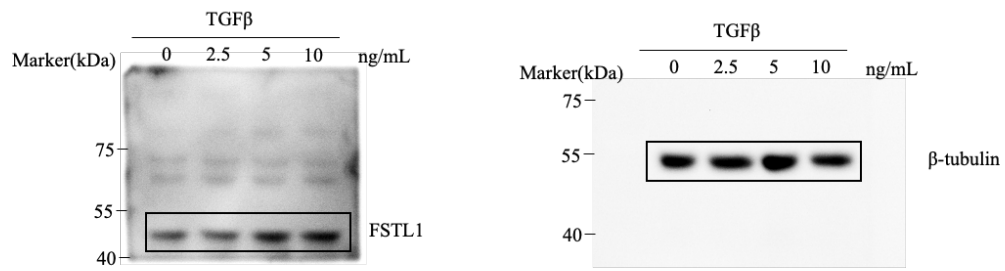


Figure 1I

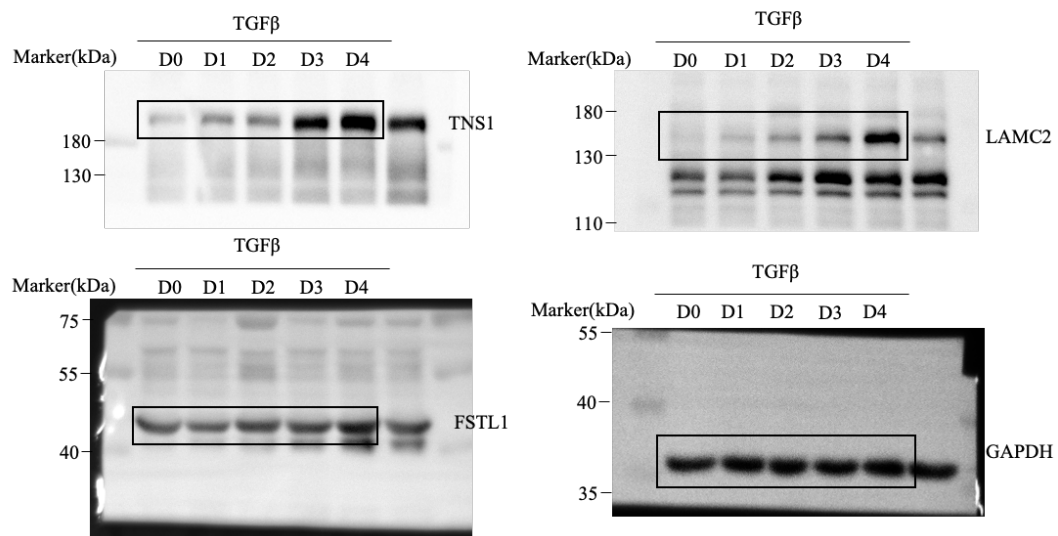


Figure 1K

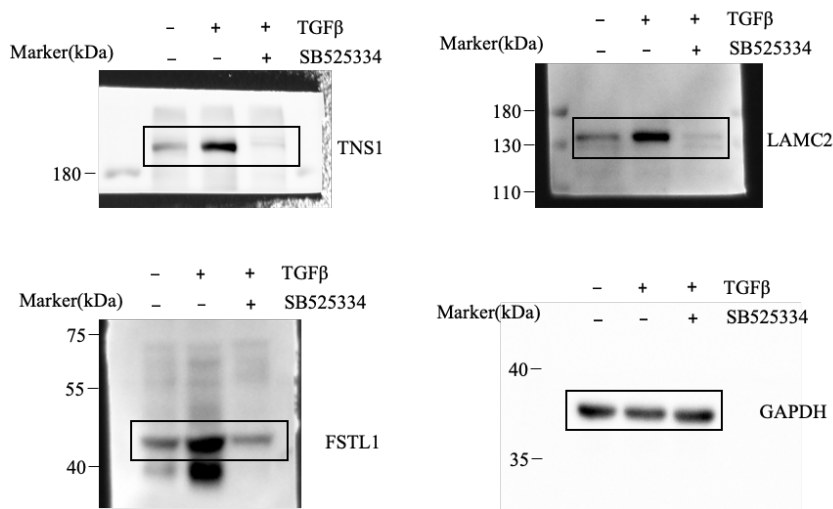


Figure 2A

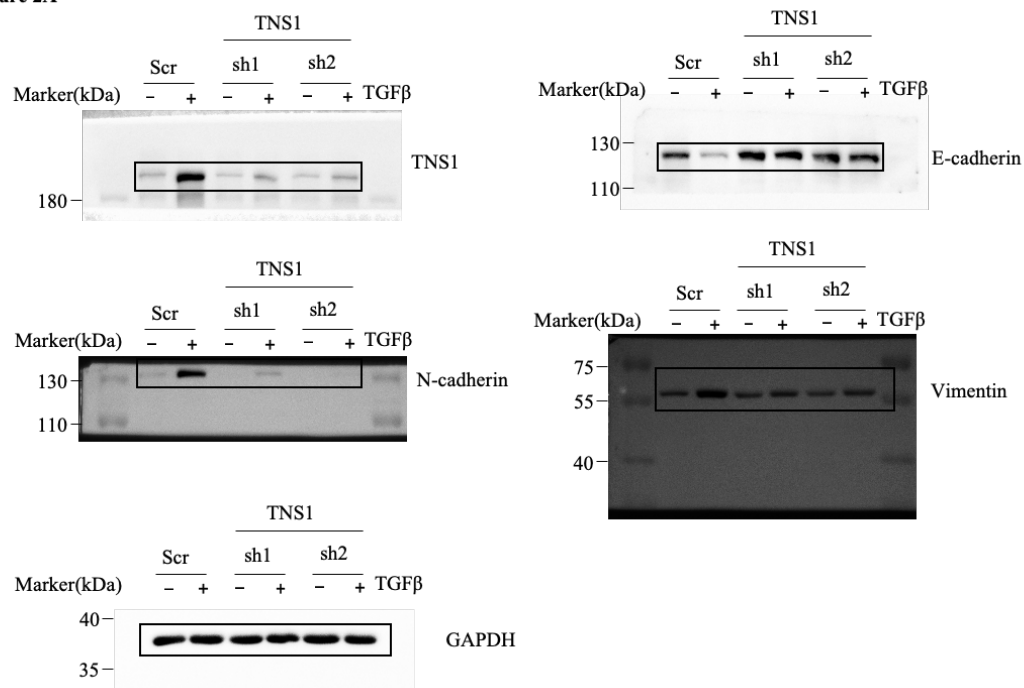


Figure 2B

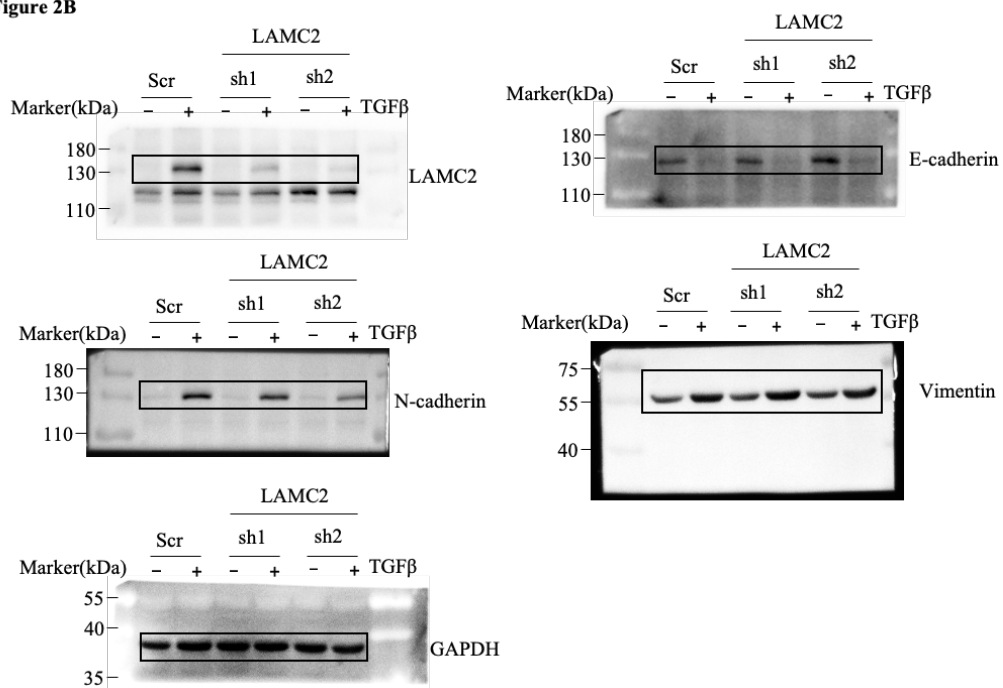


Figure 2C

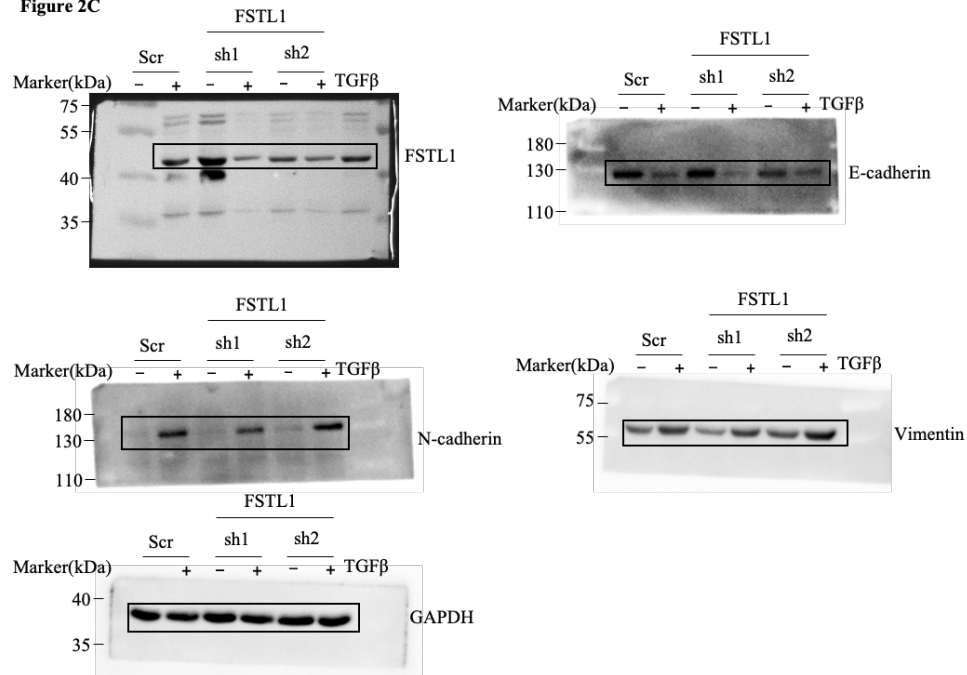


Figure 2E

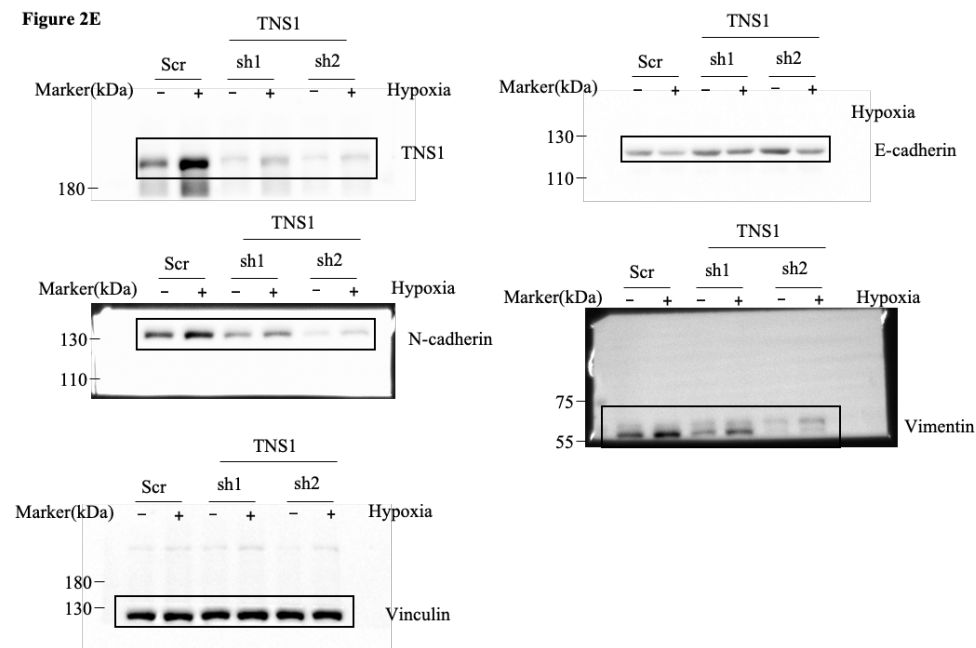


Figure 2H



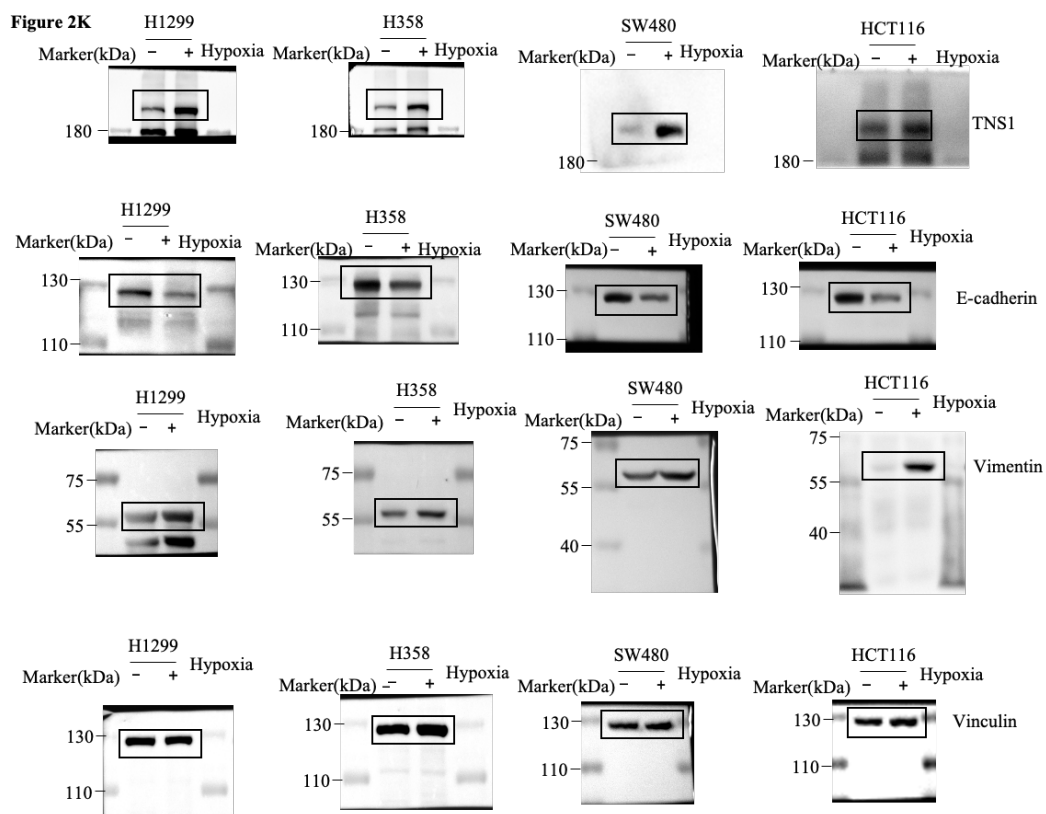
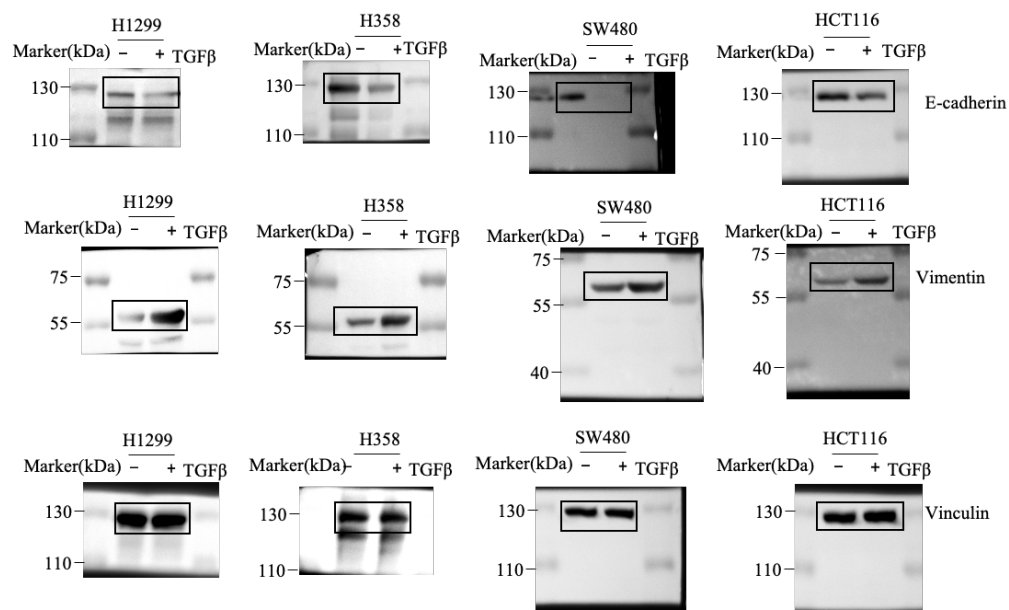


Figure 3B,C

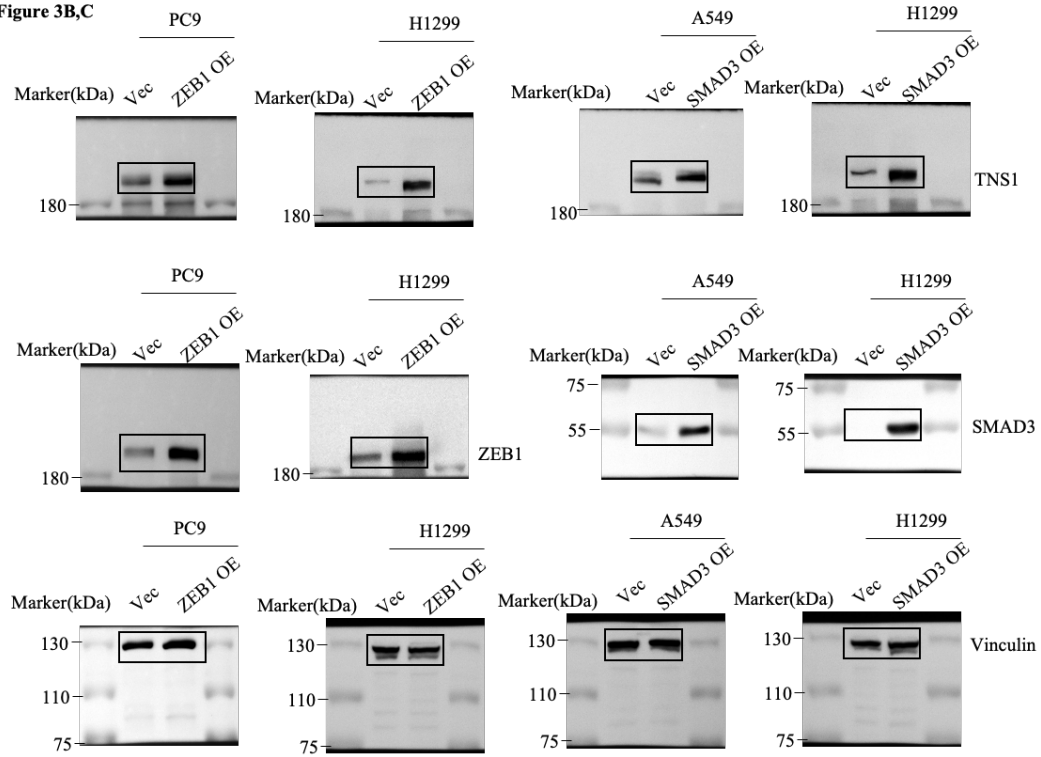


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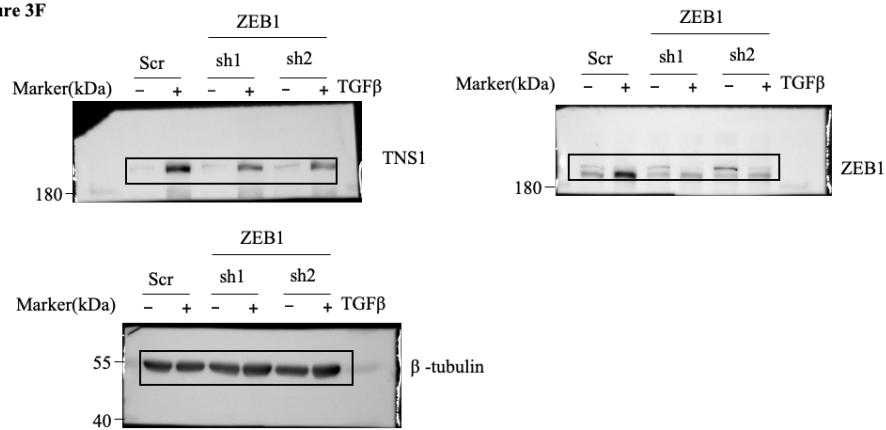
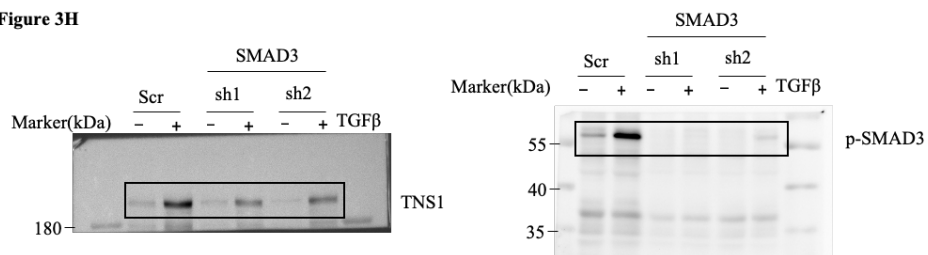


Figure 3H



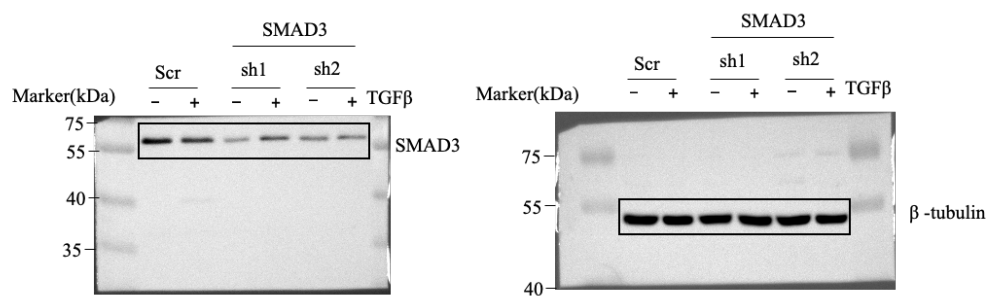


Figure 5B

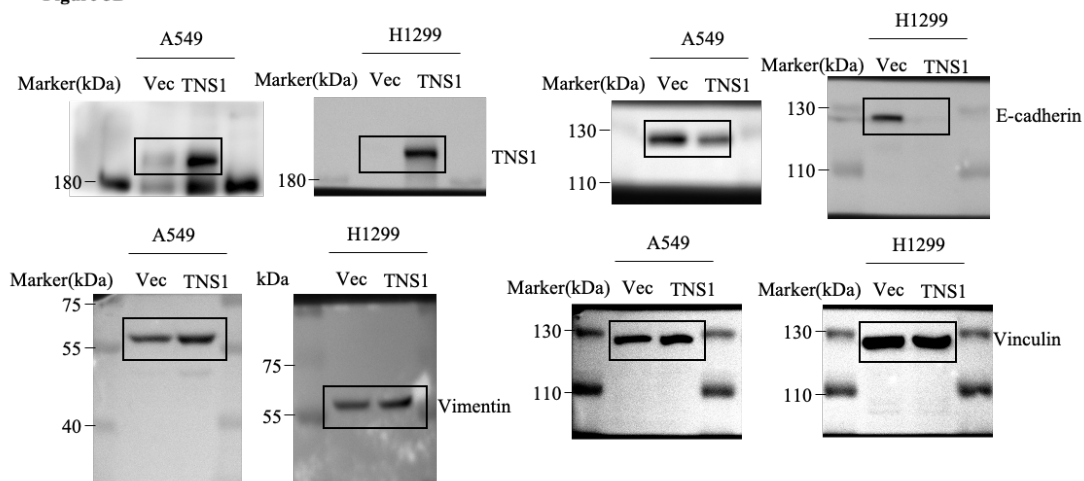


Figure 5D

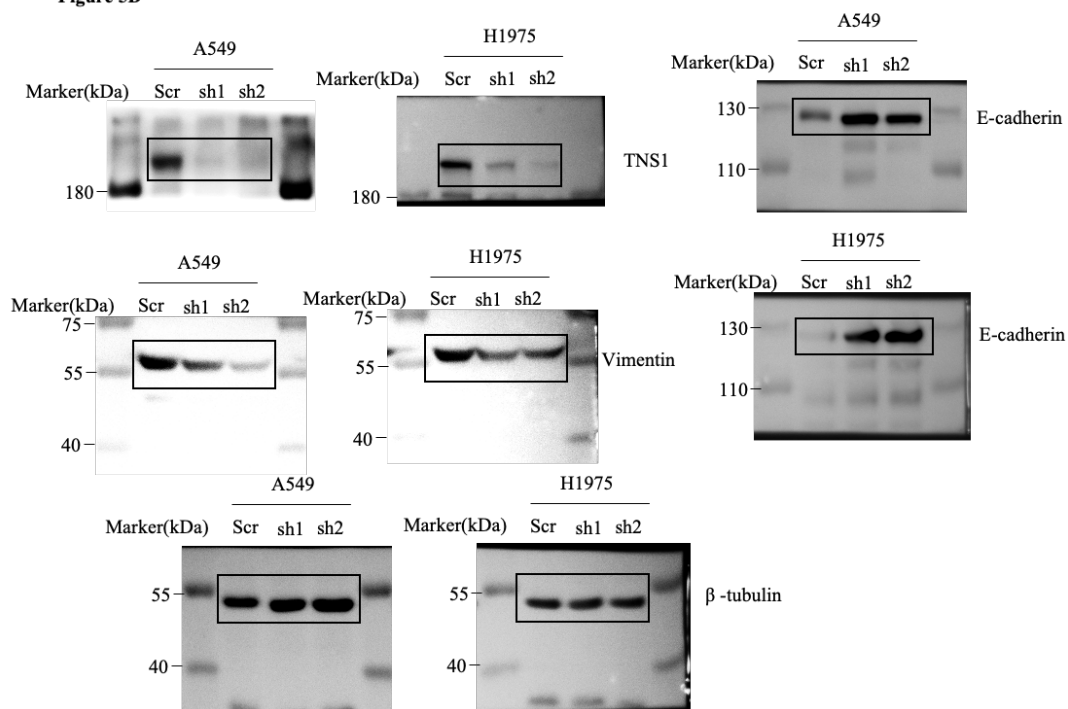


Figure 6F

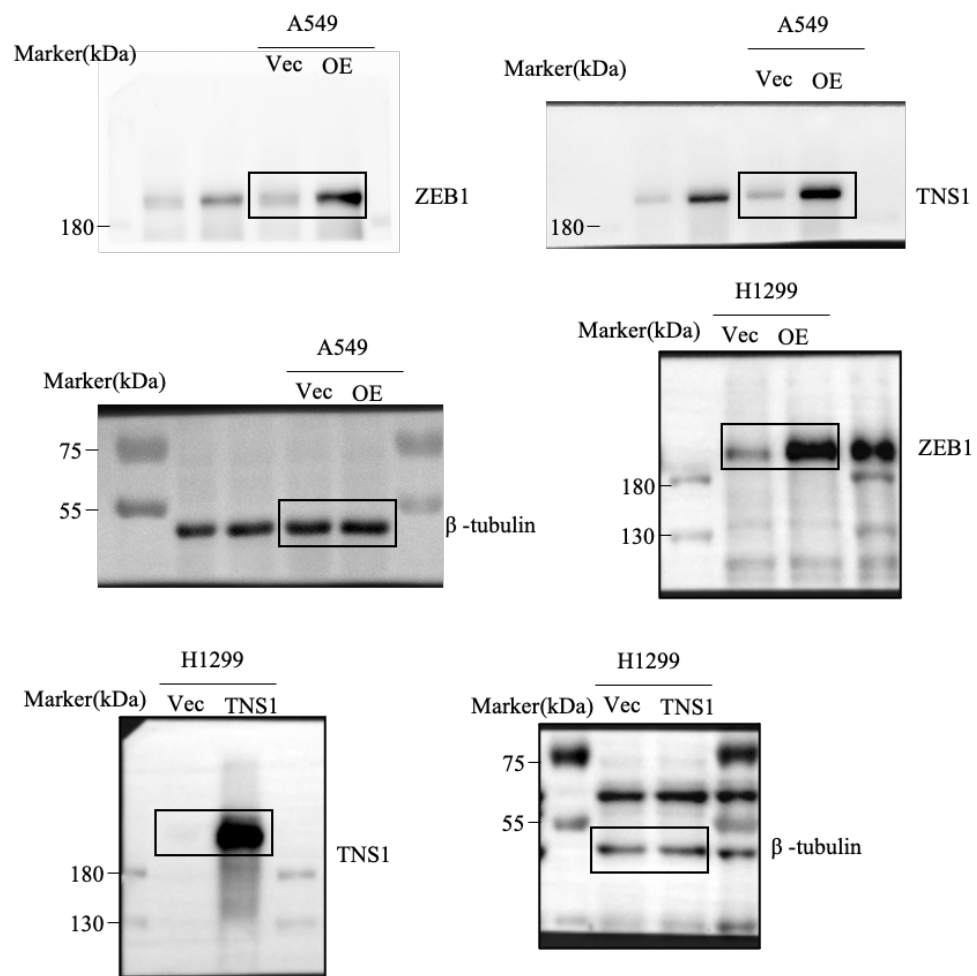


Figure 6G

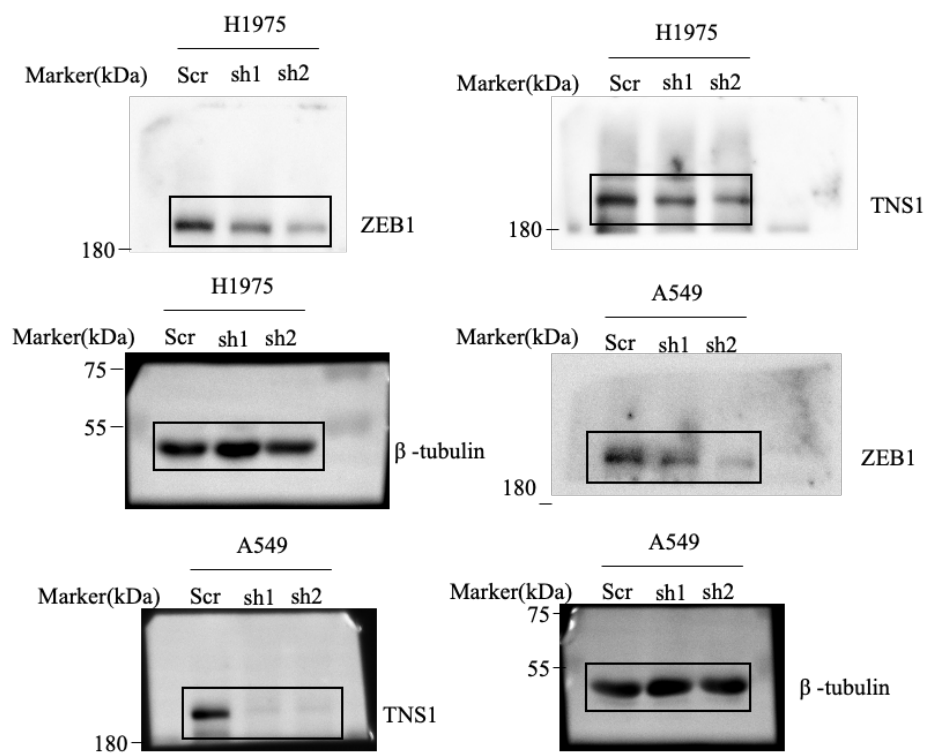


Figure 7A

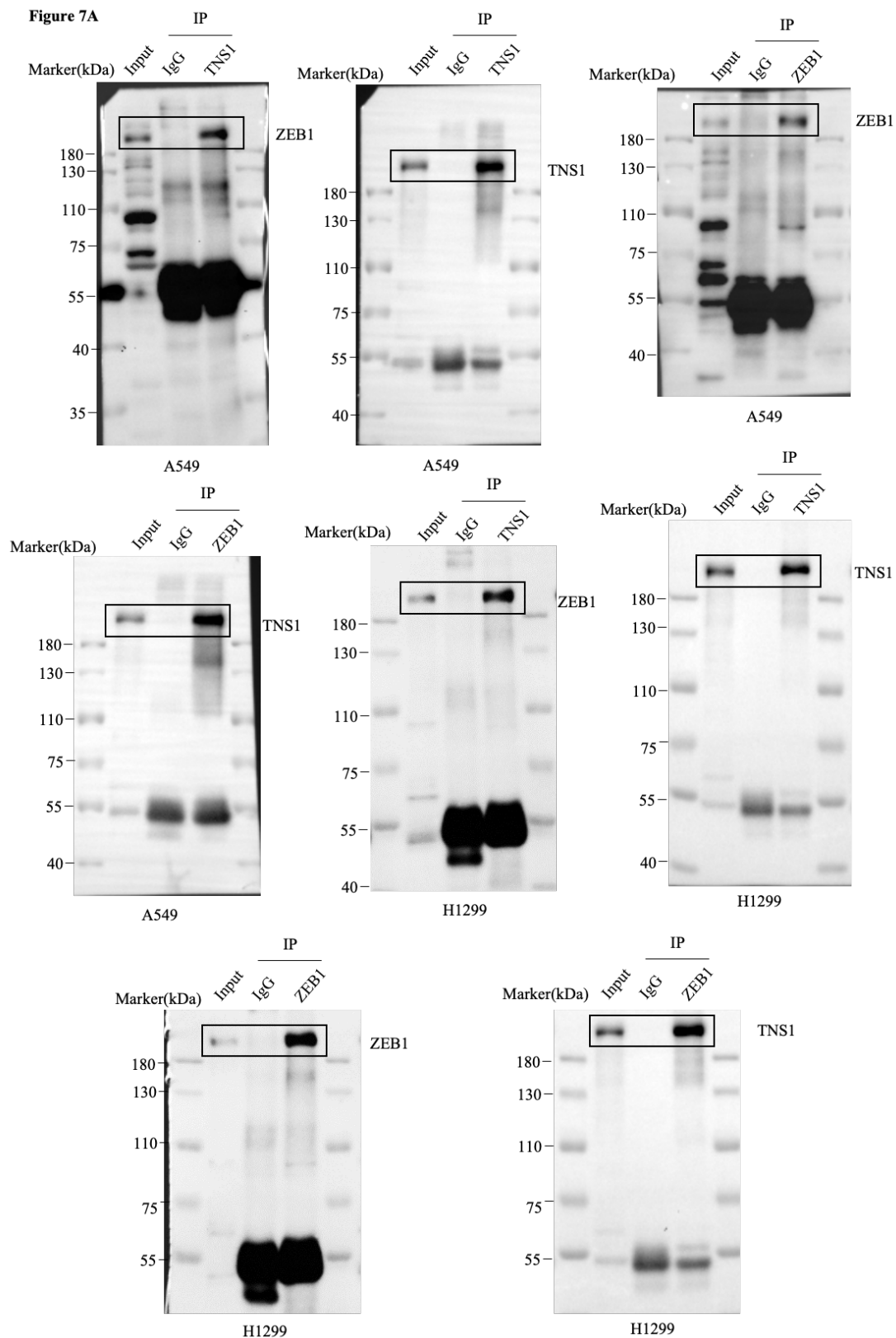


Figure 7C

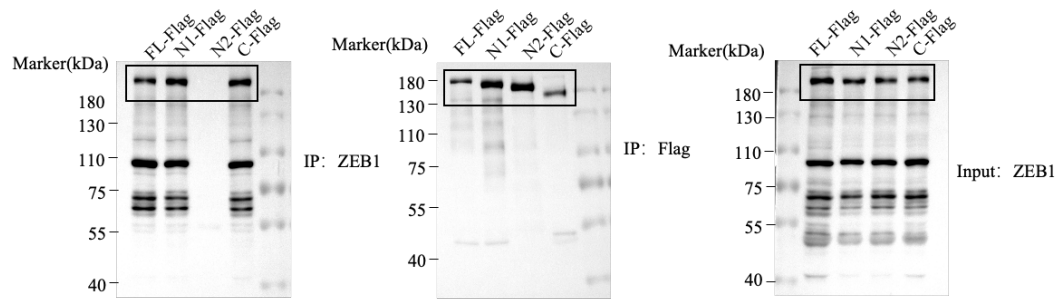


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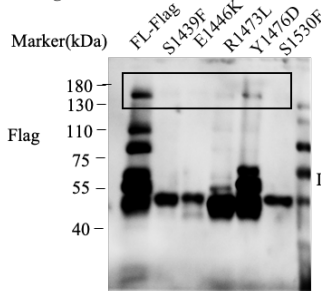


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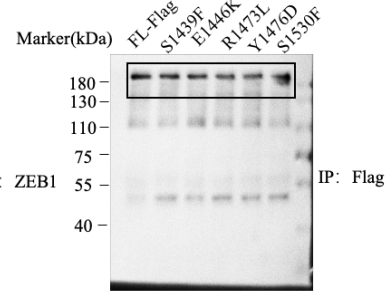


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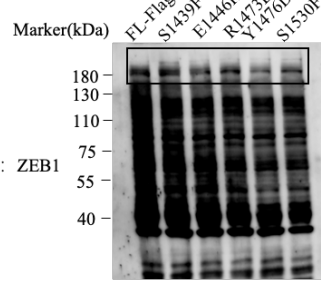
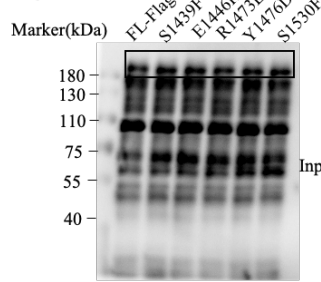


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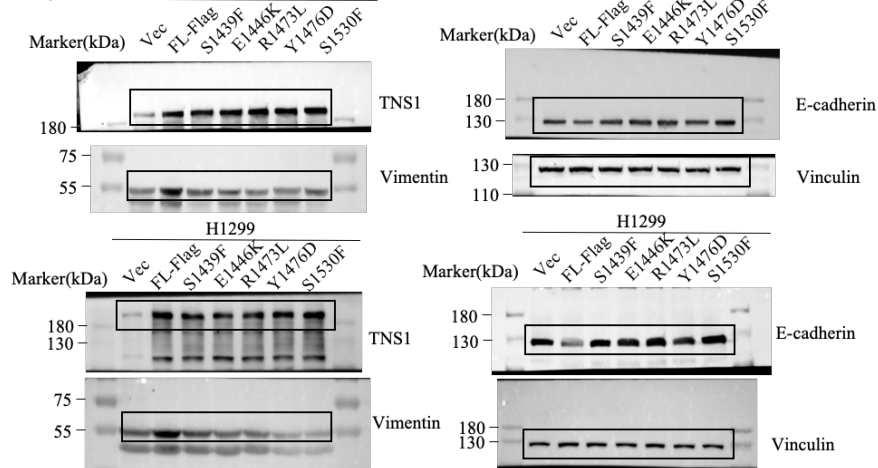


Figure 8A

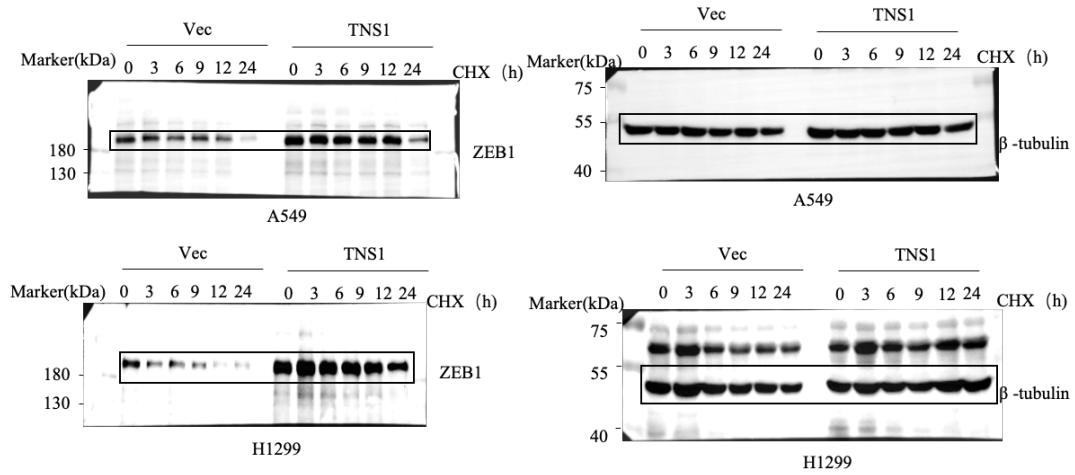


Figure 8C

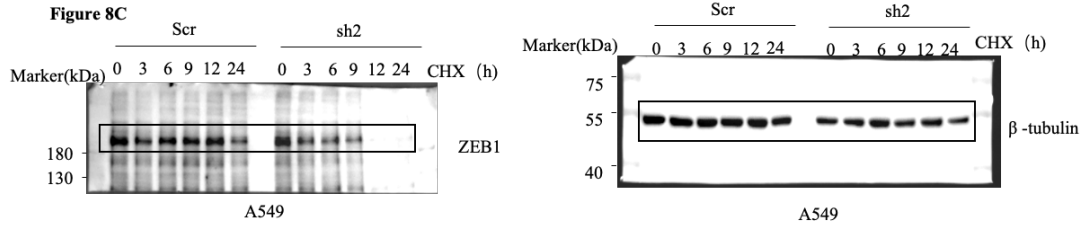


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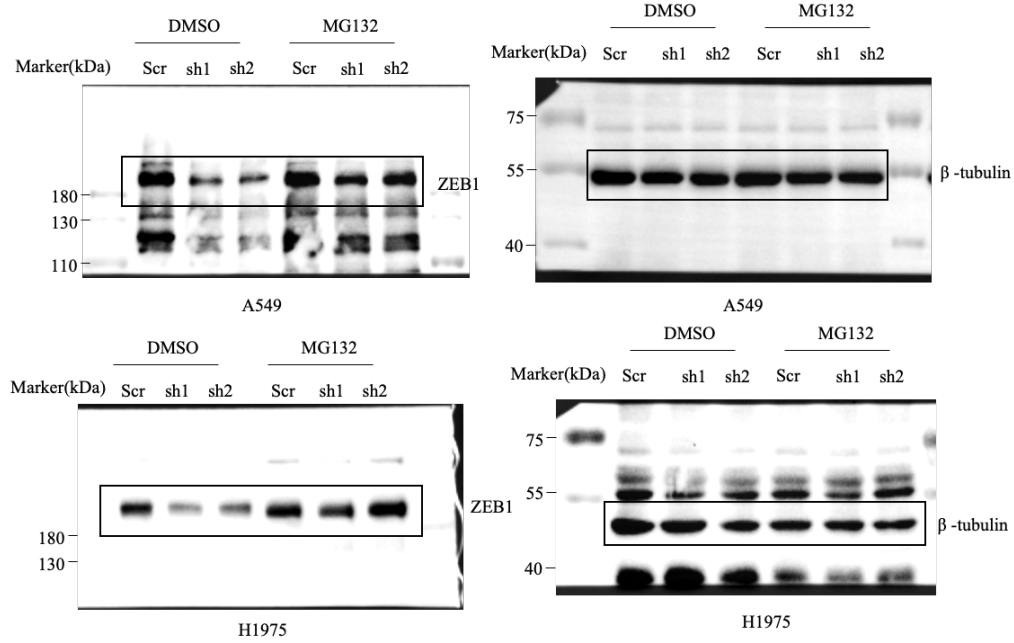


Figure 8F

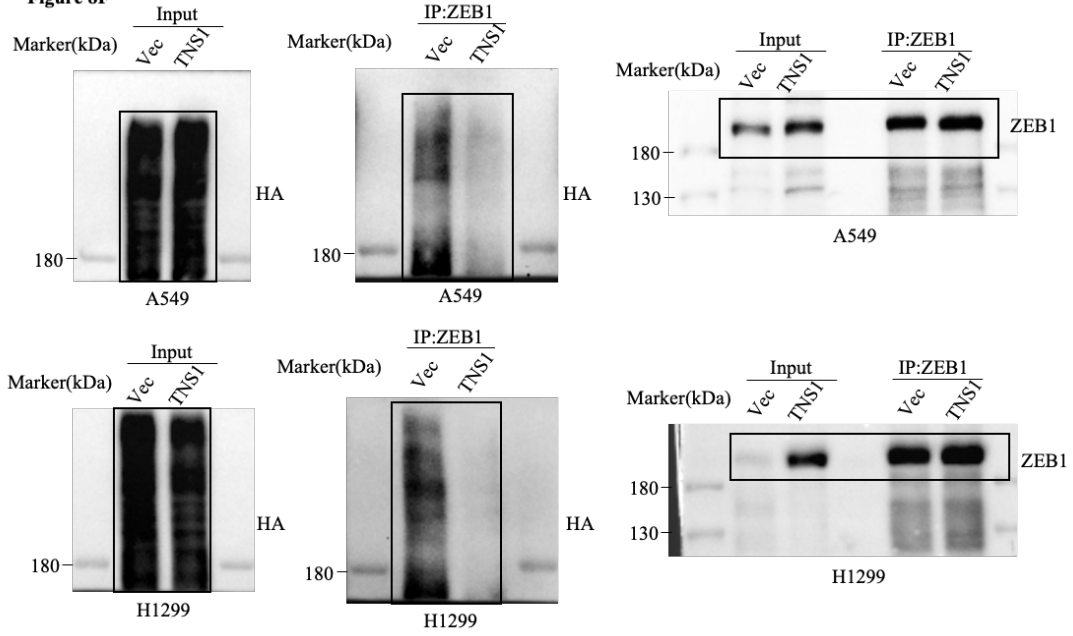


Figure 8G

