

Supplementary Materials: Novel STAT3 Inhibitor LDOC1 Targets Phospho-JAK2 for Degradation by Interacting with LNX1 and Regulates the Aggressiveness of Lung Cancer

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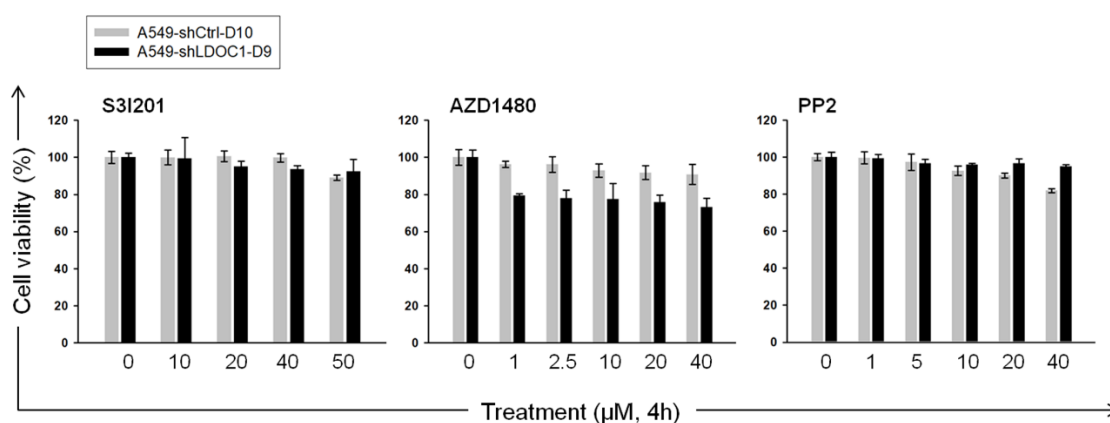


Figure S1. The cytotoxicity of S3I201, AZD1480, and PP2 on lung cancer cell lines A549-shCtrl-D10 and A549-shLDOC1-D9. Cell viability was assessed using an MTT assay after a 4-h pre-treatment with the indicated concentrations of inhibitors of STAT3 (S3I201), Jak2 (AZD1480), and Src (PP2).

Table S1. Information on qMSP primers for LDOC1.

| Regions | Primers | Sequence 5'-3' | Location ^a | Amplicom (bp) | # CpG ^b |
|----------|-----------|-----------------------------|-----------------------|---------------|--------------------|
| mLDOC1-1 | mLDOC1-4F | 5'-CGGTGTTTTTTTCGAAAC-3' | -460 | 108 | 14 |
| | mLDOC1-4R | 5'-CGTCGTTACAAAATCGATTC-3' | -567 | | |
| mLDOC1-2 | mLDOC1-3F | 5'-CGAGAGGGTTAGTTTGTTC-3' | -417 | 126 | 15 |
| | mLDOC1-3R | 5'-ACGAACATATAAAAACGCCGT-3' | -542 | | |
| mLDOC1-3 | mLDOC1-2F | 5'-CGTGGATACGTATTTTTTGC-3' | -227 | 128 | 13 |
| | mLDOC1-2R | 5'-CATCAAAAACGCGTACAAC-3' | -354 | | |
| mLDOC1-4 | mLDOC1-1F | 5'-TGAGATCGGATTTAGCGTTC-3' | -6 | 130 | 8 |
| | mLDOC1-1R | 5'-CTAAATCGCTAAACCACCGA-3' | 124 | | |

^a The 5' nucleotide number where the primer begins (from transcription start site). ^b Amount of CpG dinucleotides.

Table S2. qPCR primers for LDOC1, IL-6, and 18S rRNA.

| Symbol | Primers | Sequence 5'-3' |
|----------|---------|--------------------------------|
| LDOC1 | LDOC1-F | 5'-ATGACGACGAAGACGACGA-3' |
| | LDOC1-R | 5'-GAGGGTCGAGGGCCTAATAA-3' |
| IL-6 | IL-6-F | 5'-GATGAGTACAAAAGTCCTGATCCA-3' |
| | IL-6-R | 5'-CTGCAGCCACTGGTTCTGT-3' |
| 18S rRNA | 18Sr-F | 5'-TGTGCCGCTAGAGGTGAAATT-3' |
| | 18Sr-R | 5'-TGGCAAATGCTTTCGCTTT-3' |



