**Table S2.** Three groups of representative primary antibodies chosen for identification: pulmonary adenocarcinoma-confirming markers, EMT-associated markers and CSC-representative markers.

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| **Three groups of primary antibodies**  | **Antibody Antibody subtype Staining location Dilution Manufacturer**  |
| 　 | CK7 | mouse monoclone | cytoplasm | 1:100 | Neomarker |
| Pulmonary Adc-confirming markers | TTF-1 | mouse monoclone | nucleus | 1:100 | Neomarker |
|  | CEA | rabbit polyclone | nucleus | 1:5000 | Neomarker |
|  | E-cad | rabbit polyclone | membrane | 1:200 | Santa Cruz |
| EMT-associated markers | Vimentin | mouse monoclone | cytoplasm | 1:100 | DAKO |
|  | Fascin | mouse monoclone | cytoplasm | 1:200 | Thermo |
|  | CD133 | rabbit polyclone | membrane | 1:500 | Abcam |
| CSC-representative markers | Nanog | rabbit polyclone | nucleus | 1:50 | Abcam |
| 　 | OCT-4 | rabbit polyclone | nucleus | 1:250 | Abcam |
| Adc: adenocarcinoma, CK7: cytokeratin 7, TTF-1: Thyroid Transcription Factor-1, CEA: Carcinoembryonic Antigen, E-cad : E-cadherin.  |