Table S1  Overall survival in patients with sarcomatoid HCC

| Case No. | Sex | Age (years) | Overall survival (months) |
|----------|-----|-------------|--------------------------|
| 1        | M   | 46          | 3                        |
| 2        | M   | 69          | 12                       |
| 3        | F   | 37          | 1.5                      |
| 4        | M   | 59          | 2.5                      |
| 5        | M   | 71          | 5                        |
| 6        | M   | 48          | 14                       |
| 7        | F   | 53          | 16                       |
| 8        | M   | 65          | 2                        |
| 9        | M   | 42          | 4                        |
| 10       | M   | 61          | 8                        |

Ratios or median  
F:M = 2:8  
56 (37-71)  
4.5 (1.5-16)
**Table S2  List of antibodies and suppliers used for immunohistochemistry (IHC) or immunofluorescence (IF)**

| Antibody         | Isotype | Suppliers                  | Cat. No  | Application |
|------------------|---------|----------------------------|----------|-------------|
| MST4             | Rabbit IgG | Abcam                      | ab52491  | WB, IHC, IF |
| Ki67             | Rabbit IgG | Thermo Fisher SCIENTIFIC | PA5-19462 | IHC         |
| CK8/18(CAM5.2)   | Mouse IgG | BD Biosciences             | 349205   | IHC         |
| E-cadherin       | Mouse IgG | Santa Cruz                 | sc-21791 | IHC         |
| Vimentin         | Mouse IgG | Santa Cruz                 | sc-6260  | IHC         |
| Snail1           | Goat IgG | Abcam                      | ab53519  | WB, IHC, IF |
| E-cadherin       | Mouse IgG | BD Biosciences             | 610182   | WB, IF      |
| N-cadherin       | Mouse IgG | BD Biosciences             | 610920   | WB, IF      |
| Vimentin         | Mouse IgG | BD Biosciences             | 562337   | WB, IF      |
| Fibronectin      | Mouse IgG | BD Biosciences             | 610077   | WB, IF      |
| p-AKT(S473)      | Rabbit IgG | CST                        | 40605    | WB, IHC     |
| Antibody    | Isotype     | Suppliers                        | Cat. No  | Application |
|------------|-------------|---------------------------------|----------|-------------|
| MST4       | Rabbit IgG  | Abcam                           | ab52491  | WB, IHC, IF |
| Snail1     | Goat IgG    | Abcam                           | ab53519  | WB, IHC, IF |
| Snail1     | Rabbit      | Cell Signaling Technology (CST) | 3879S    | WB          |
| E-cadherin | Mouse IgG   | BD Biosciences                  | 610182   | WB, IF      |
| N-cadherin | Mouse IgG   | BD Biosciences                  | 610920   | WB, IF      |
| Vimentin   | Mouse IgG   | BD Biosciences                  | 562337   | WB, IF      |
| Fibronectin| Mouse IgG   | BD Biosciences                  | 610077   | WB, IF      |
| E-cadherin | Rabbit IgG  | Proteintech                     | 20874-1-AP | WB, IF |
| N-cadherin | Rabbit IgG  | Proteintech                     | 22018-1-AP | WB, IF |
| Vimentin   | Rabbit IgG  | Proteintech                     | 10366-1-AP | WB, IF |
| Fibronectin| Rabbit IgG  | Proteintech                     | 15613-1-AP | WB, IF |
| p-Akt (S473)| Rabbit IgG   | CST                             | 4060S    | WB, IHC     |
| Akt (pan)  | Rabbit IgG  | CST                             | 4685S    | WB          |
| p-GSK-3-beta(S9)| Rabbit IgG | CST | 9323S | WB |
| GSK-3-beta | Rabbit IgG  | CST                             | 9315S    | WB          |
| GAPGH      | Rabbit IgG  | Proteintech                     | 10494-1-AP | WB |