***Supplemental Table 1.*** List of used Primary antibodies.

|  |  |  |  |
| --- | --- | --- | --- |
| ***Antigen*** | ***Species*** | ***Source*** | ***Dilution*** |
| IHC | IF |
| ALK4 | Rabbit | Abcam (ab109300) | 1:5000 | 1:500 |
| Amylase | Rabbit | Sigma (A8273) | 1:5000 | / |
| Cytokeratin19 | Rat | DHSB (Troma-III) | 1:100 | 1:20 |
| Desmin | Goat | R&D Systems (AF3844) | 1:2500 | / |
| Phospho-H2AX (H2AX-ser139) | Rabbit | Cell Signaling (#9718) | 1:1500 | 1:300 |
| Phospho-Smad2 | Rabbit | Chemicon (ab3849) | Na | 1:100 |
| ActivinA | Rabbit | Genetex Inc.(GTX108405) | 1:500 | 1:1000\* |
| Ki67 | Goat | SCBT(sc-7846) | 1:750 | 1:750\* |
| p21WAF1/Cip1 | Mouse | Dako(M7202) | 1:100 | 1:50 |
| Sox9 | Rabbit | Sigma(C89924) | 1:5000 | 1:100 |

\* Combined with a Tyramide Signal Amplification (TSA system, Perkin-Elmer)