**Supplementary file 1: The raw data of WB.**

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| Name | Molecular weight | Original bands/gels M N1 T1 N2 T2 N3 T3 N2 T2  |
| PI3K | 110kDa100 | Pi3k2 |
| Akt  | 60 kDa70 | Akt2 |
| mTOR | 289kDa | mTOR2 |
| Actin | 43kDa40 | Actin2 |

Note: 1. The blots with same amount of protein, i.e., PI3K, Akt, mTOR and Actin.

1. Abbreviation. N: normal kidney tissue, T: ccRCC; M: Marker.