



Supplementary Fig. 11. Mechanism of pVHL mediated tumor suppression activity. The pVHL comprises a small α and a large β subunit. The α -domain serves as a binding site, whereas the β -domain plays important role in substrate recognition. During normoxia (oxygen available condition), HIF α binds with VHL beta domain and VHL alpha domain associates with E3 ubiquitin ligase via elongin BC complex which leads to efficient ubiquitylation and proteasomal degradation of HIF α that suppress tumor proliferation activity. On the other hand, During Hypoxia or when pVHL is defective, HIF α unable to recognize pVHL and so promotes tumor progression process. pVHL, von Hippel-Lindau tumor suppressor protein; HIF α , hypoxia inducing factor- α .