Supplemental Data

Article

mTOR Complex 2 Is Required for the Development of Prostate Cancer Induced by Pten Loss in Mice

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Figure S1. Rictor Deletion Results in Smaller Cells but Not in a Proliferation Defect

(A) Example of wild-type and Rictor<sup>L/L</sup> PB-Cre<sup>+</sup> tissue stained with H&E. The arrows mark the sections boxed by the inserts. Scale bar = 50 μm. (B-C) MEFS immortalized by p53 deletion and null for Rictor are smaller than litter matched p53<sup>-/-</sup> MEFS wild-type for Rictor, but they proliferate at the same rate.

(B) Triplicate measurements of cell size (fL) were made using a Coulter counter. Error bars = SD.

(C) Cells were seeded at equal density and cell number was measured on 5 consecutive days using a Coulter Counter (top) or using an XTT assay kit (bottom; Roche). Fold change derived from 3 experiments is shown.
Figure S2. Rictor Immunohistochemistry

(A) Additional examples of Rictor labeling. In each case, Rictor signal correlates with Akt\textsuperscript{S473} phosphorylation. Scale bar = 25\(\mu\)m.

(B) Rictor localizes to the membrane. Shown is a patch of abnormal cells from \(\text{Pten}^{\text{LoxP/LoxP}}\text{Rictor}^{\text{LoxP/LoxP}}\text{PB-Cre}^+\) prostate tissue staining positive for Rictor with a noticeable concentration of Rictor protein near the luminal edge of the cells (arrow). The indicated cells are enlarged in the bottom box. Scale bar = 25\(\mu\)m.
Figure S3. Phospho-Akt^{T308} Immunohistochemistry

Labeling of wild-type, $\text{Pten}^{\text{LoxP/LoxP}} \text{PB-Cre}^{+}$, and $\text{Pten}^{\text{LoxP/LoxP}} \text{Rictor}^{\text{LoxP/LoxP}} \text{PB-Cre}^{+}$ prostate tissue with a phospho-Akt^{T308} antibody in development for IHC. Scale bar = 25μm.