



SUPPLEMENTARY FIG. S4. Impaired insulin signaling in the beta cells isolated from *Fanca*^{-/-} or *Fancc*^{-/-} mice compared with the cells from WT littermates. Primary beta cells were treated with saline or insulin (10 μ g/ml) for 15 min, and the phosphorylation of IR and AKT was examined by immunoblotting. Total IR, AKT, and actin were probed as loading controls.