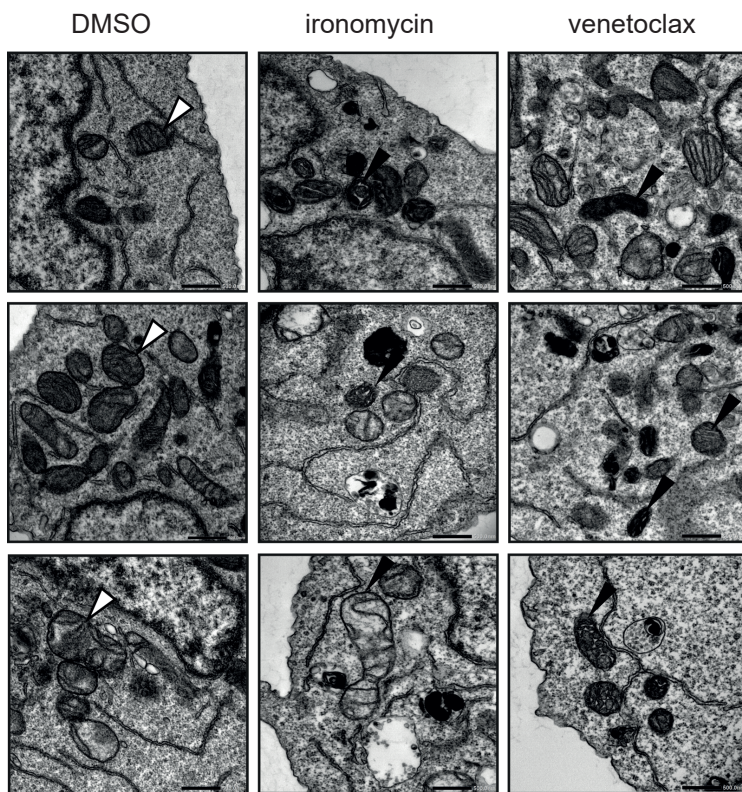
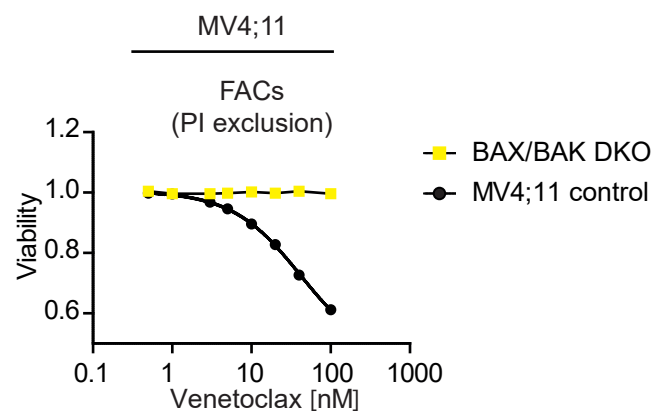


Figure S5

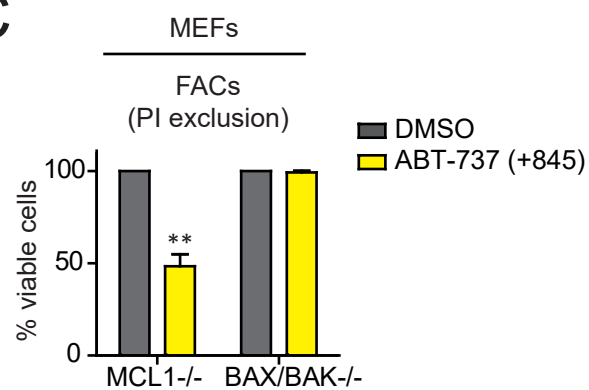
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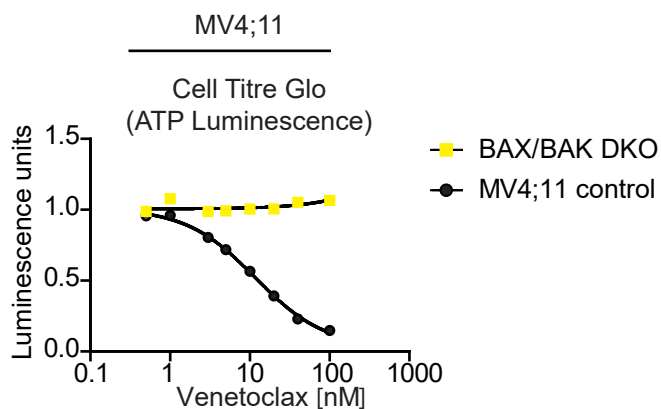
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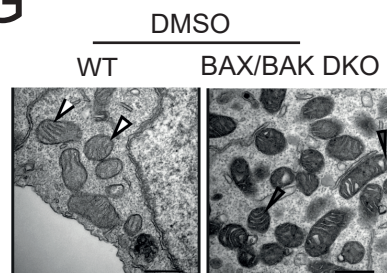
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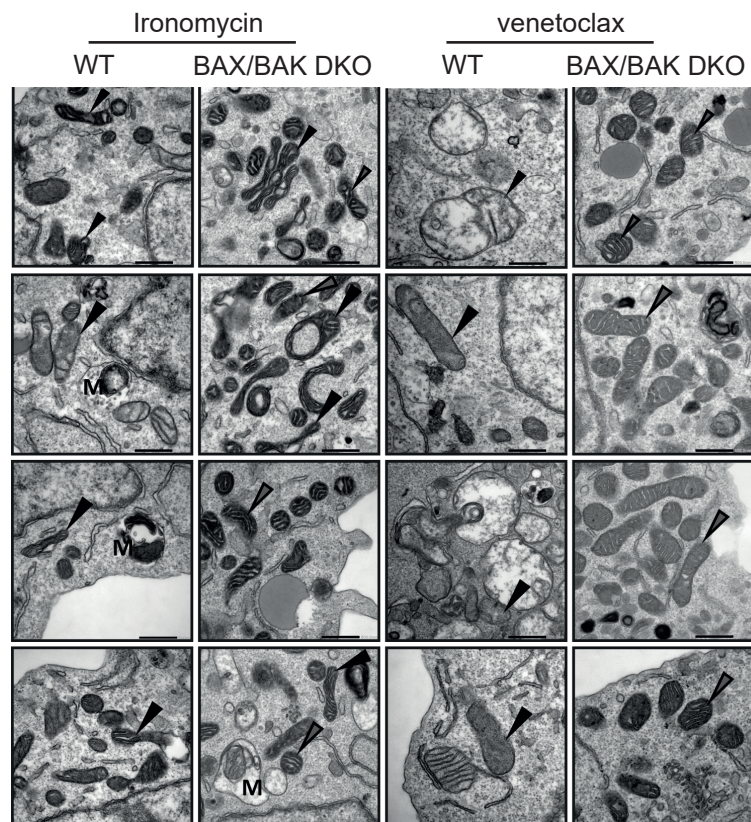
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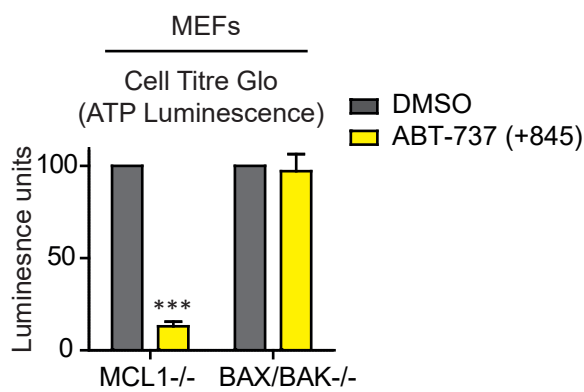
G



H



E



F

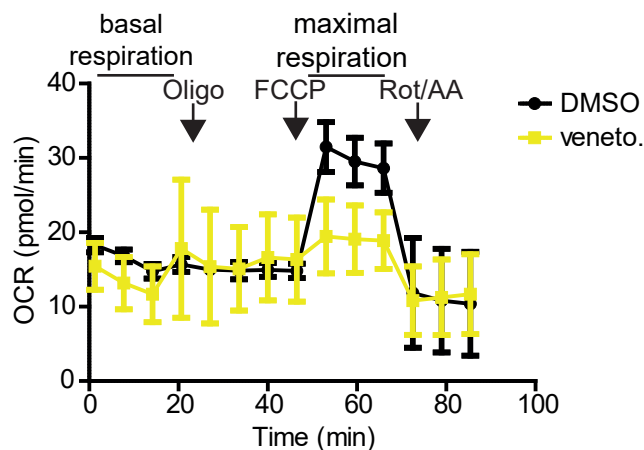


Figure S5| (related to Figure 5). Ironomycin induced mitochondrial dysfunction is BAX/BAK independent but cell death is BAX/BAK dependent. A, Transmission electron microscopy images of MV4;11 cells treated with or without 500 nM ironomycin or 50 nM venetoclax for 36 hours. White arrowheads – standard mitochondrial morphology; black arrowheads – changed mitochondrial morphology (cristae reduction and dilation, fragmentation, or dark condensed matrix). Scale bars, 20 μ m top panel, 500 nm bottom panel. **B,** Cell death assessed by PI exclusion using FACS in MV4,11 WT and BAX/BAK DKO cell lines after 48 hours of venetoclax (n=3 biological replicates). **C,** Cell death assessed by PI exclusion using FACS in MEF cells treated for 48 hours with 1 μ M ABT-737 + 20 μ M S63845 (MCL-1 inhibitor, only for *Bax*^{-/-} *Bak*^{-/-} MEF cell line). We compared a *Bax*^{-/-} *Bak*^{-/-} with a control *Mcl-1*^{-/-} MEF cell line (n=3 biological replicates, means \pm SEM, *p < 0.05). **D,** ATP luminescence measured by Cell Titer-Glo® in MV4,11 WT and BAX/BAK DKO cell lines after 48 hours of venetoclax (n=3 biological replicates). **E,** ATP luminescence measured by Cell Titer-Glo® in MEF cells treated for 48 hours with with 1 μ M ABT-737 + 20 μ M S63845 (MCL-1 inhibitor, only for *Bax*^{-/-} *Bak*^{-/-} MEF cell line). We compared a *Bax*^{-/-} *Bak*^{-/-} with a control *Mcl-1*^{-/-} MEF cell line, (n=3 biological replicates, means \pm SEM, ***p < 0.001). **F,** Seahorse assay measuring mitochondrial basal and maximal respiration in WT MV4;11 cells. We treated the cells for 6 hours with 50 nM venetoclax (n=3 biological replicates). **G-H,** Transmission electron microscopy images of mitochondria in MV4;11 WT and BAX/BAK DKO cells treated with DMSO (**G**), 500 nM ironomycin or 50nM venetoclax for 16 hours (**H**). M – Mitophagosome; White arrowheads – standard mitochondrial morphology; grey arrowheads –changed morphology of Bax/Bak DKO cells (dark matrix with dilated cristae); black arrowheads – changed mitochondrial morphology (cristae reduction and dilation, condensed matrix, unusual shapes, circular mitochondria, or electron-lucent areas). Scale bars, 500 nm.