Supplementary Materials

Brain-Specific Serine-47 Modification of Cytochrome *c* Regulates Cytochrome *c* Oxidase Activity Attenuating ROS Production and Cell Death: Implications for Ischemia/Reperfusion Injury and Akt Signaling

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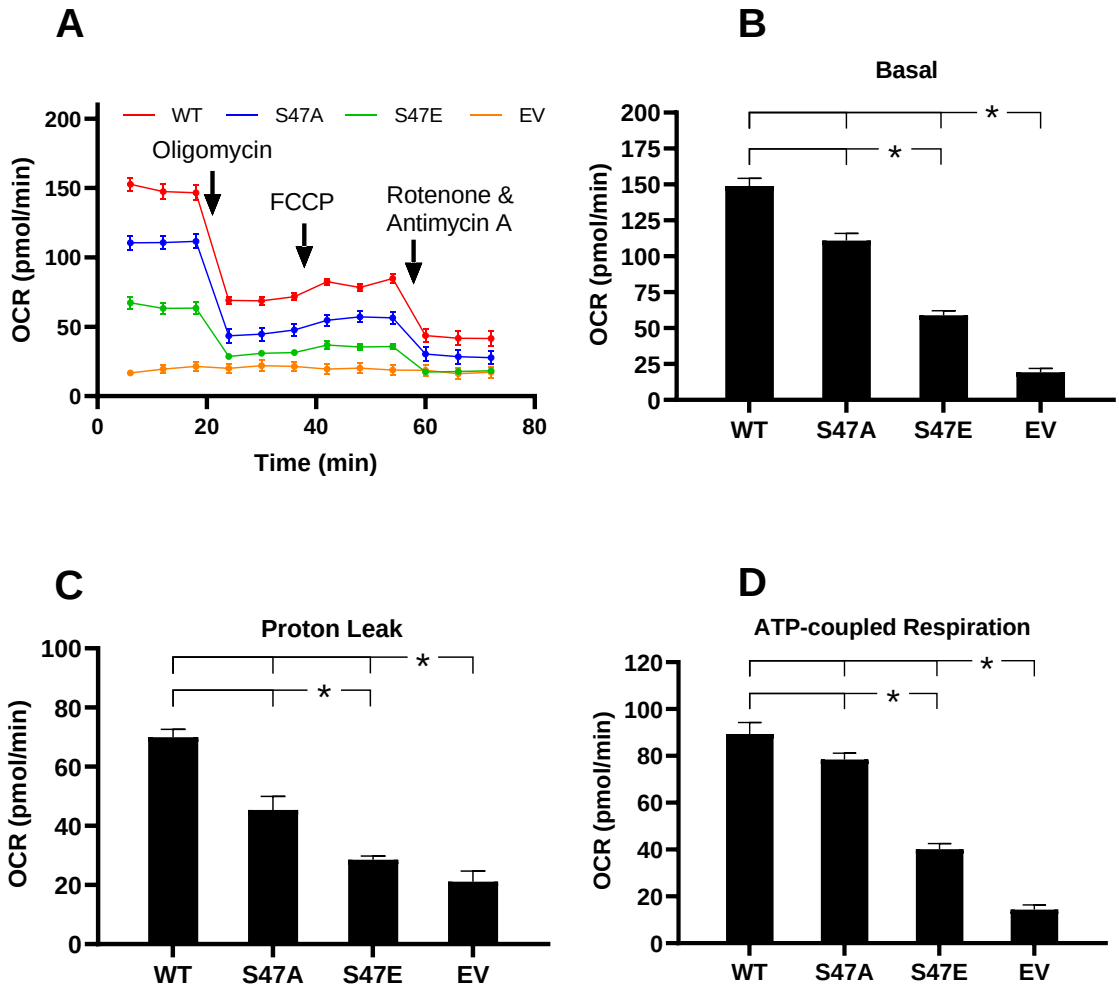

Figure S1. (**A**) Mitochondrial stress test of cells stably expressing EV and WT, S47A, S47E Cytc in Seahorse media supplemented with 10 mM galactose (n = 5–6). FCCP addition does not result in the expected maximal respiration. (**B**) Basal mitochondrial respiration. (**C**) Proton leak (basal respiration not coupled to ATP production after addition of oligomycin). (**D**) ATP-coupled respiration in Seahorse media supplemented with 10 mM galactose. Data are represented as means ± SEM, * $p < 0.05$.

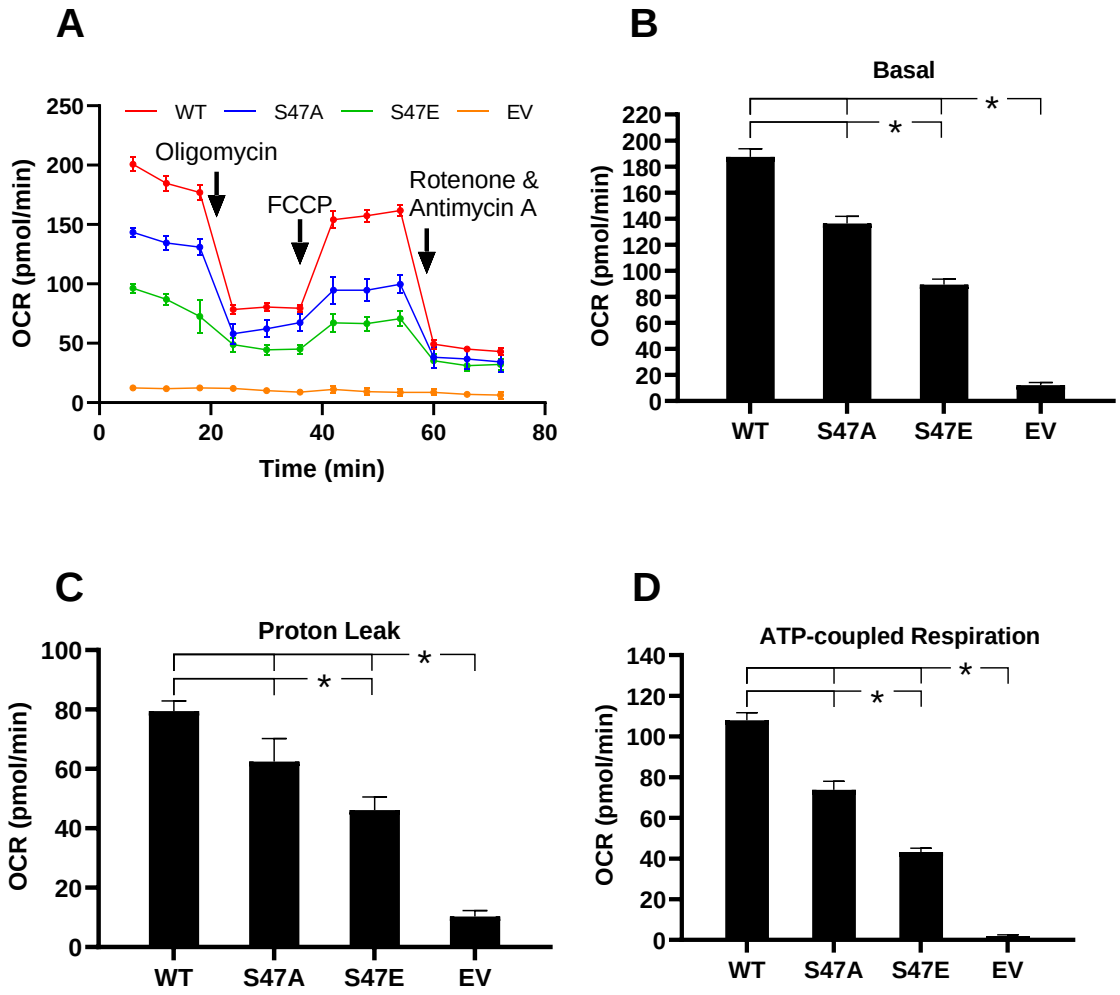

Figure S2. (**A**) Mitochondrial stress test of cells stably expressing EV and WT, S47A, S47E Cytc in Seahorse media supplemented with 10 mM glucose and 10 mM sodium pyruvate (n = 5–6). FCCP addition does not result in the expected increased respiration suggesting that the compound is toxic to lung embryonic fibroblast cells. (**B**) Basal mitochondrial respiration. (**C**) Proton leak (basal respiration not coupled to ATP production after addition of oligomycin). (**D**) ATP-coupled respiration in Seahorse media supplemented with 10 mM galactose. Data are represented as means ± SEM, * $p < 0.05$.

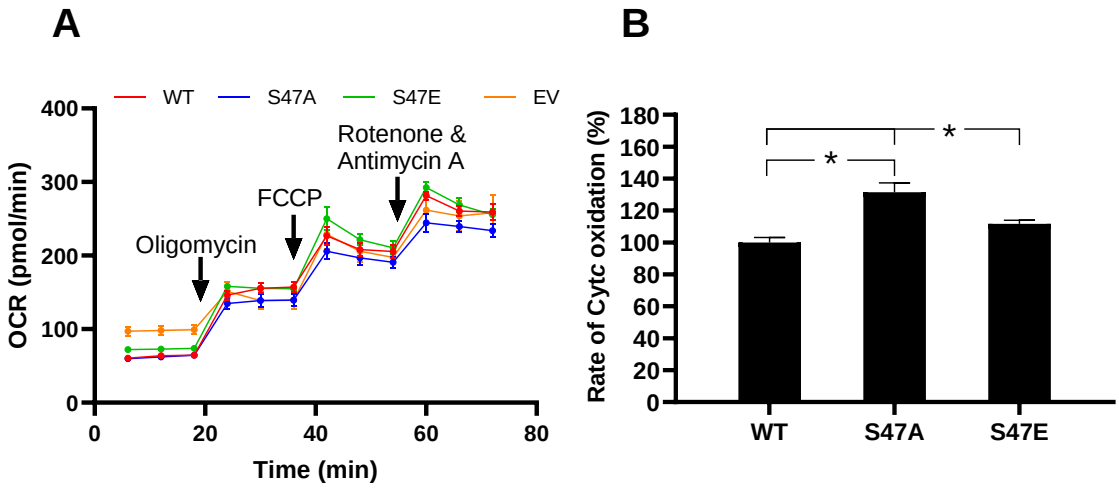

Figure S3. (**A**) Glycolysis stress test based on extracellular acidification rate (ECAR) of cells stably expressing EV and WT, S47A, S47E Cyt*c* in Seahorse media supplemented with 10 mM glucose and 10 mM sodium pyruvate ($n = 4–6$). (**B**) Rate of Cyt*c* oxidation upon addition of 100 μM H_2O_2 ($n = 3$). Data are represented as means ± SEM, * $p < 0.05$.