

Supplementary Figures: Drp1 promotes vascular smooth muscle cell death via adverse mitochondrial dynamics

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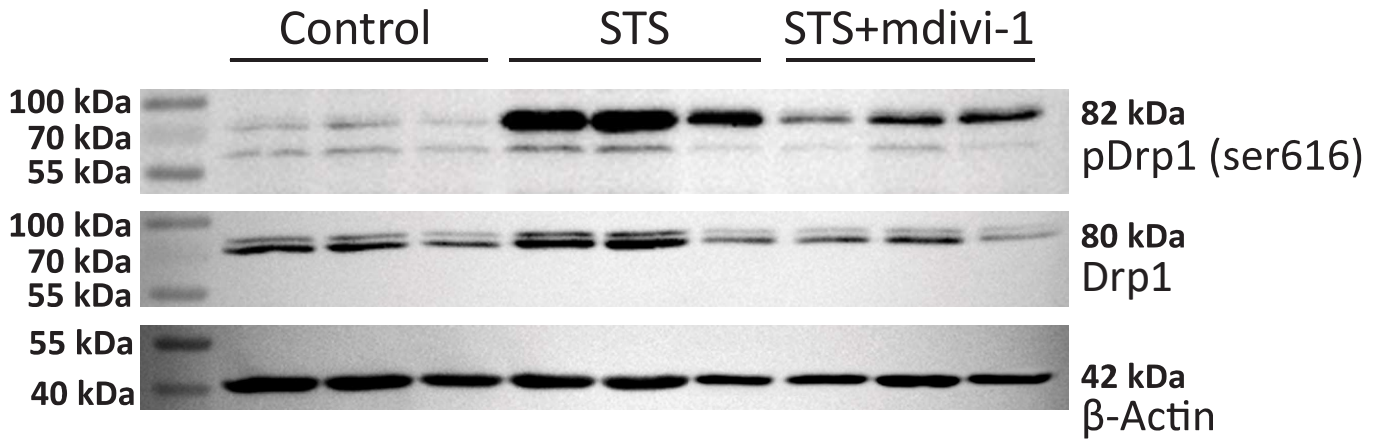
Canada.

Phone: (403)-220-3446

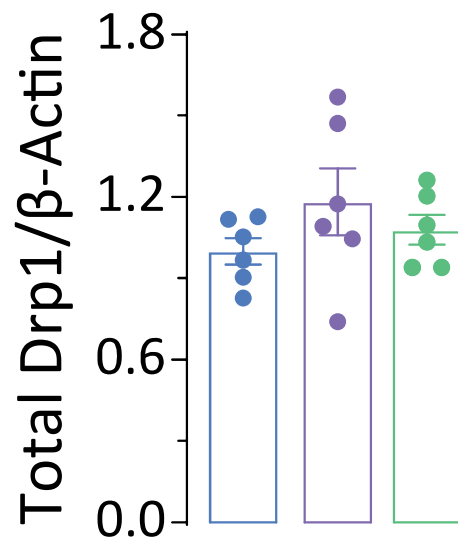
E-mail: vaibhav@ucalgary.ca; vaibhav@patellab.ca



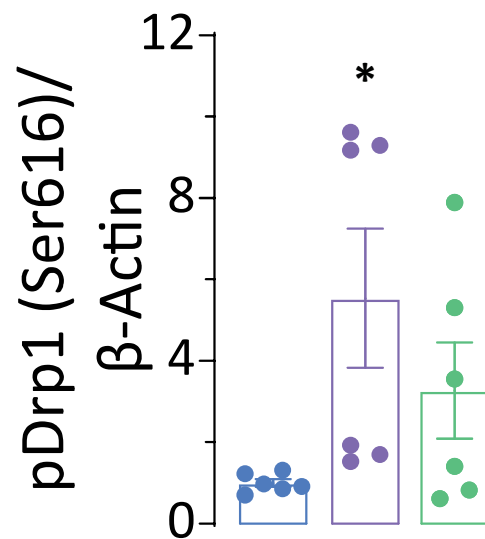
A



B



C

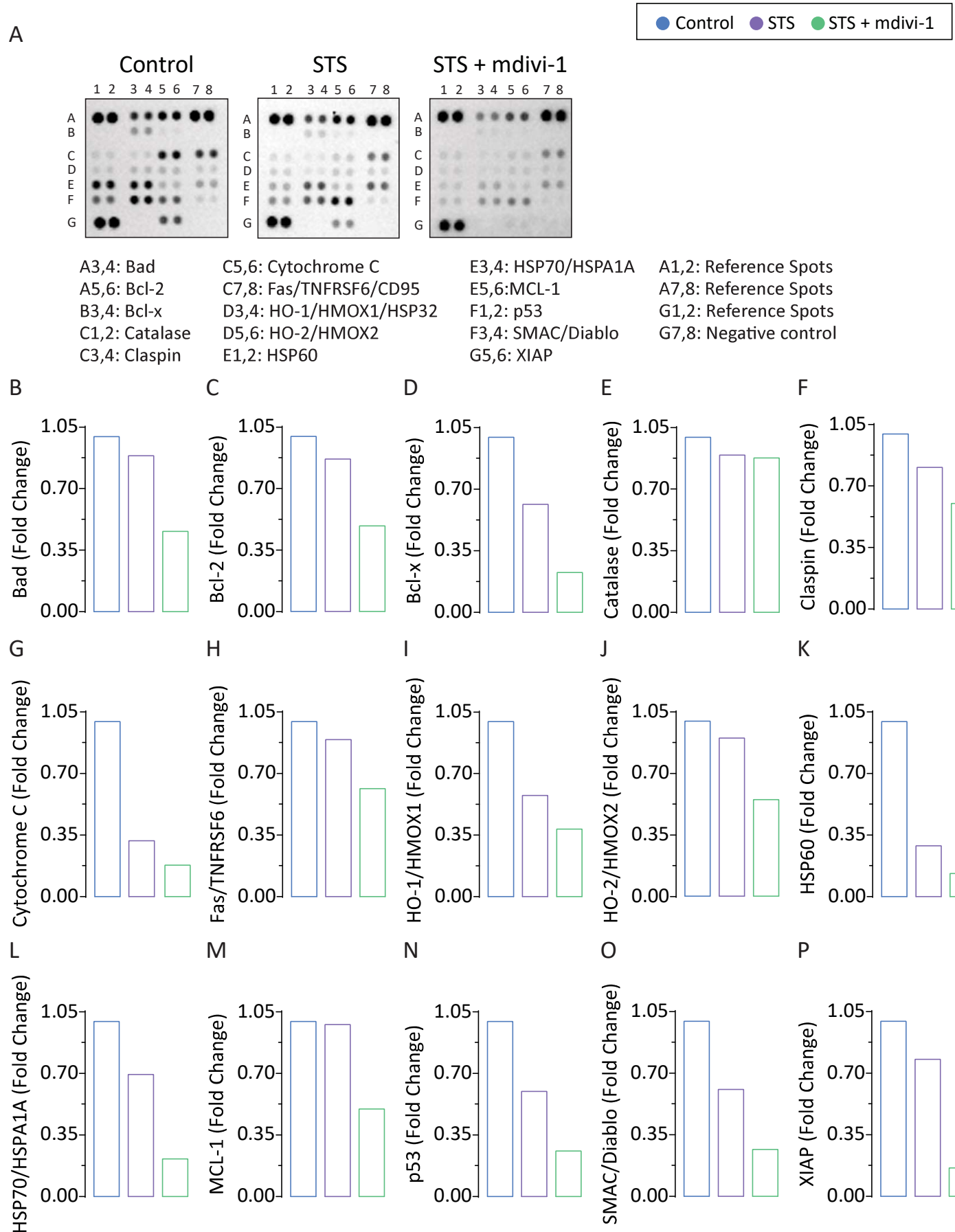


Supplementary figure 1

(A) Representative images of western blots for β-Actin, total Drp1 and Drp1 phosphorylation at 616 in VSMCs and (B-C) quantification of expression of total Drp1 and pDrp1 (ser616) relative to β-Actin.

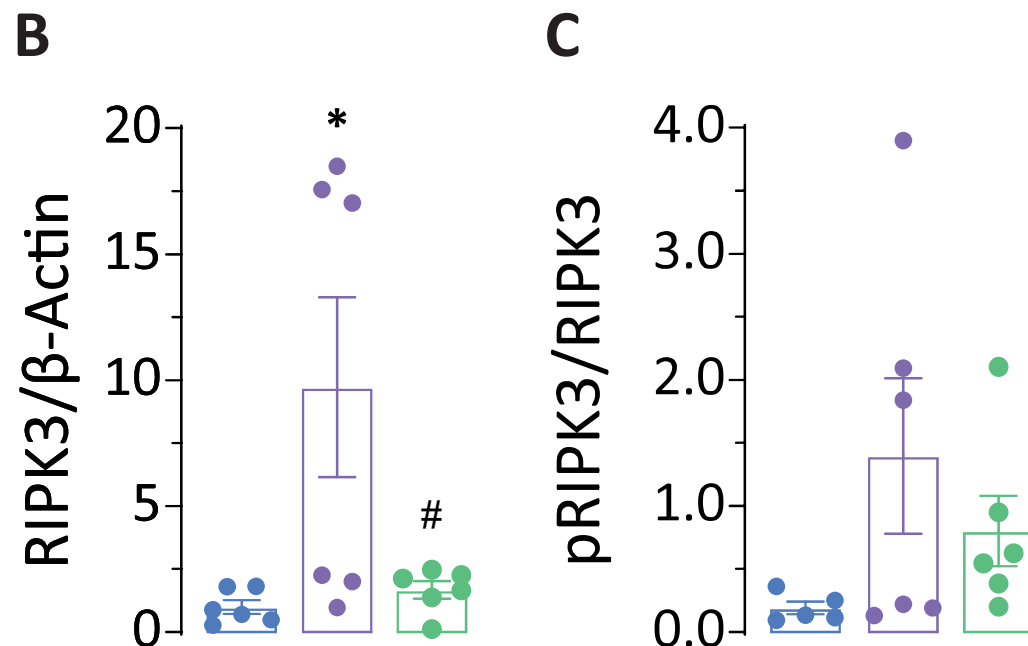
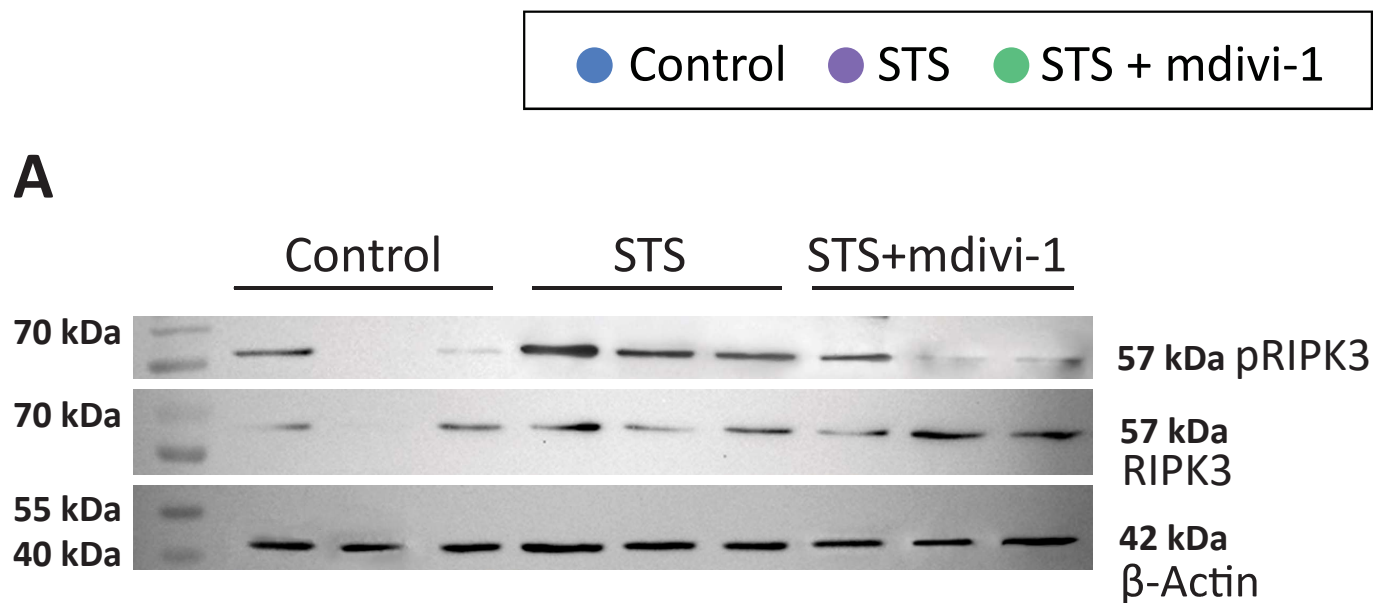
*, p < 0.05 compared with control group; #, p < 0.05 compared with STS group using one-way ANOVA.

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Supplementary figure 2: Protein array for apoptosis-associated proteins

(A) Representative images of mouse apoptosis array demonstrating apoptosis-associated proteins in cell lysates from VSMCs treated with STS±mdivi-1. (B) Quantification of apoptosis-associated pro-apoptotic i.e Bcl-2-associated death promoter (Bad), Catalase, Cytochrome C and anti-apoptotic i.e B-cell leukemia/lymphoma 2 (Bcl2), B-cell lymphoma-extra large (Bcl-x), X-chromosome-linked inhibitor of apoptosis protein (XIAP) proteins in VSMCs treated with STS±mdivi-1



Supplementary figure 3

(A) Representative images of western blots for β-Actin, total RIPK3 and phospho-RIPK3 (T231+S232) in VSMCs and (B-C) quantification of expression of total RIPK3 and pRIPK3 (T231+S232). *, $p < 0.05$ compared with control group; #, $p < 0.05$ compared with STS group using one-way ANOVA.

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Figure 2A & Suppl. 1A

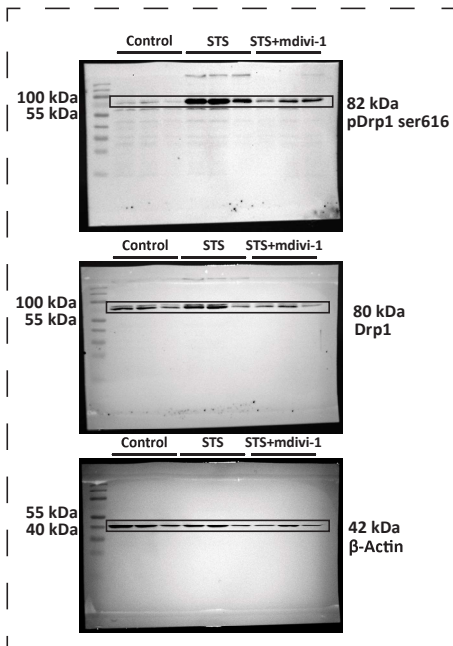


Figure 6A

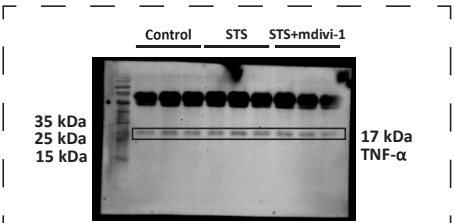


Figure 6E

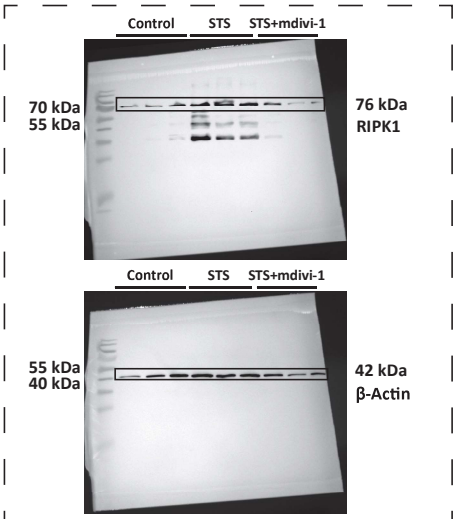


Figure 6C

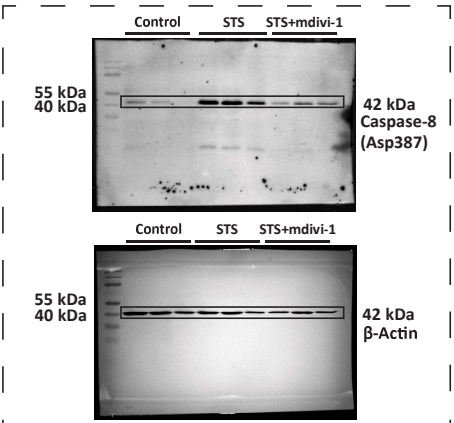


Figure 6G & Suppl. 3A

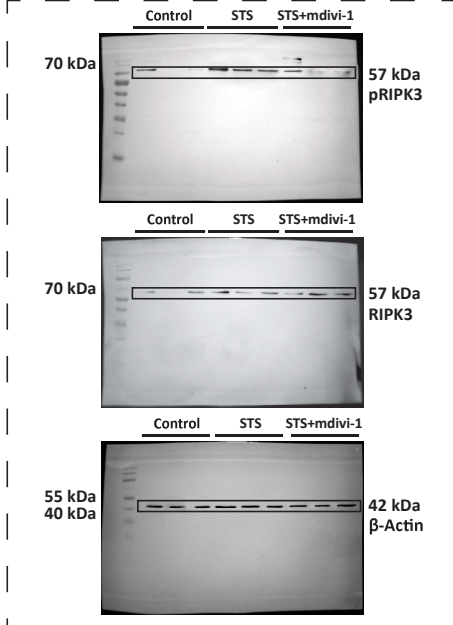
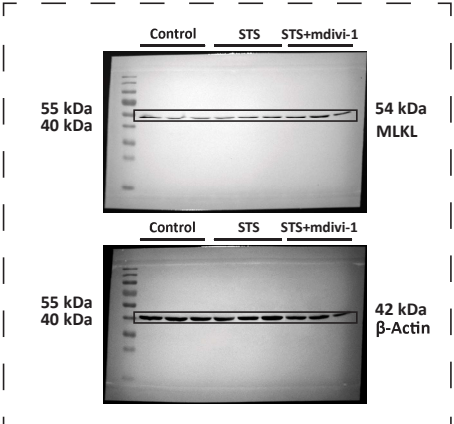


Figure 6I



Supplementary figure 4
Uncropped Western blots showing molecular weight markers from Figures 2A, 6A, 6C, 6E, 6G, and 6I and supplementary figures 1 A and 3A.