Supplemental Material

Data Stored in Dataverse

https://doi.org/10.7910/DVN/ENK2AS

Sex-Dependent Differences in Bioenergetics of Young Mouse Brain Microvasculature: Implications for Oxygen-Glucose Deprivation and Reoxygenation Injury

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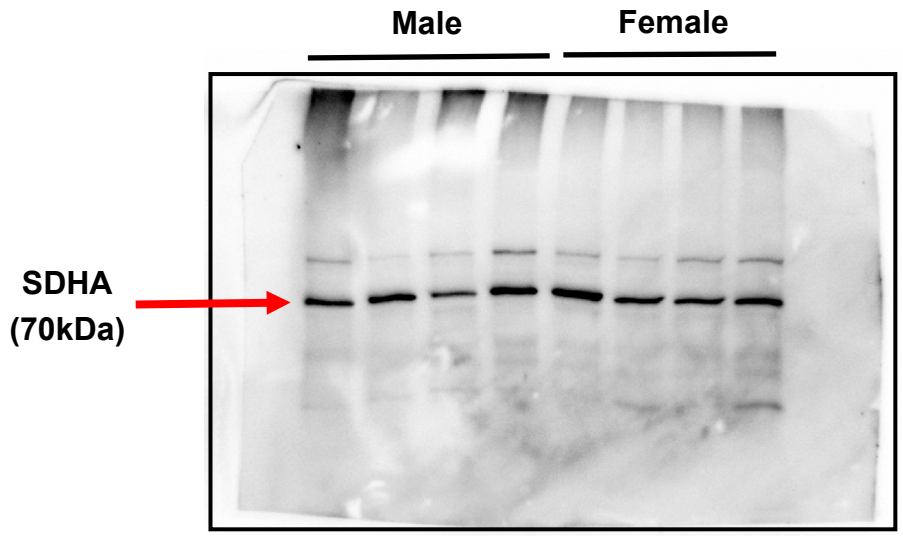
Supplemental Figure 1.



Original blot of SDHA in Figure 5A. Western blot analysis of SDHA. Blots were blocked for one hour (2% BSA in TBST) followed by overnight incubation at 4^{o}C with Mouse Anti-Succinate Dehydrogenase Complex Flavoprotein Subunit A (SDHA F-2) antibody (70 kDa, Santa Cruz; sc-390381) at a dilution of 1:1000. Blots were washed with TBST and incubated at room temperature for an hour with secondary antibody (1:10000 dilution). Blots were washed and bands were developed using SuperSignal™ West Femto Maximum Sensitivity Substrate (Thermo Fisher Scientific) and images were taken using Bio-rad imager. N= 4.

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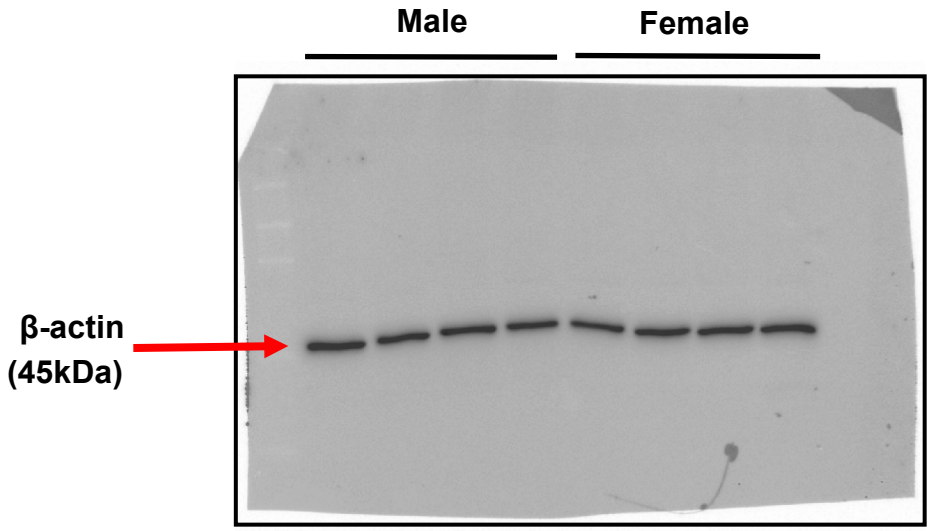
Supplemental Figure 2.



Original blot of β-actin in Figure 5A. Western blot analysis of **β-actin**. Blots were blocked for one hour (2% BSA in TBST) followed by overnight incubation at 4°C with Mouse Anti-β-Actin antibody (45 kDa, 1:1,000; Cell Signaling; 8H10D10) at a dilution of 1:1000. Blots were washed with TBST and incubated at room temperature for an hour with secondary antibody (1:10000 dilution). Blots were washed and bands were developed using SuperSignal™ West Femto Maximum Sensitivity Substrate (Thermo Fisher Scientific) and images were taken using Bio-rad imager. N= 4.

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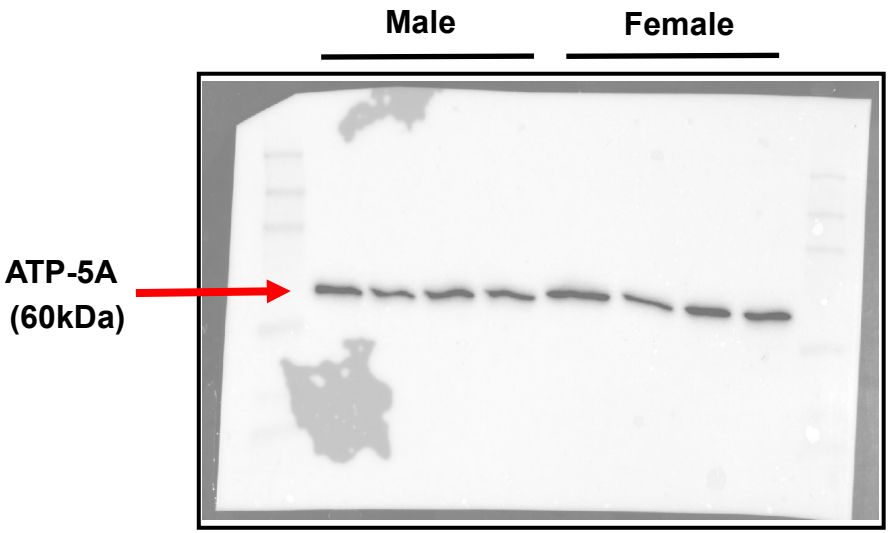
Supplemental Figure 3.



Original blot of ATP-5A in Figure 5C. Western blot analysis of ATP-5A. Blots were blocked for one hour (2% BSA in TBST) followed by overnight incubation at 4^{o}C with Mouse Anti-ATP Synthase F1 Subunit Alpha (ATP5A) antibody (60 kDa, Santa Cruz; SC - 136178) at a dilution of 1:1000. Blots were washed with TBST and incubated at room temperature for an hour with secondary antibody (1:10000 dilution). Blots were washed and bands were developed using SuperSignal™ West Femto Maximum Sensitivity Substrate (Thermo Fisher Scientific) and images were taken using Bio-rad imager. N= 4.

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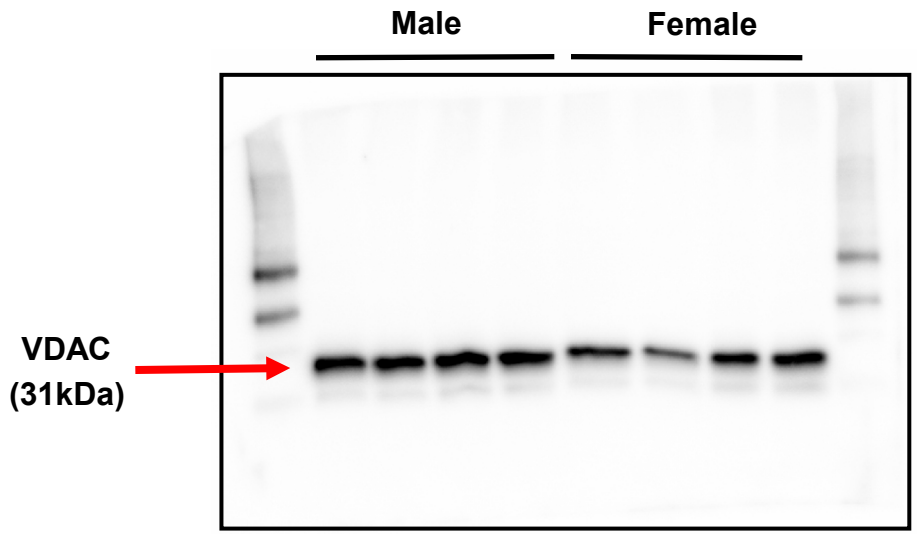
Supplemental Figure 4.



Original blot of VDAC in Figure 5C. Western blot analysis of VDAC. Blots were blocked for one hour (2% BSA in TBST) followed by overnight incubation at 4^{o}C with Rabbit anti-voltage-dependent anion-selective channel 1 (VDAC1) antibody (31 kDa, 1:1,000 Abcam; ab15895) at a dilution of 1:1000. Blots were washed with TBST and incubated at room temperature for an hour with secondary antibody (1:10000 dilution). Blots were washed and bands were developed using SuperSignal™ West Femto Maximum Sensitivity Substrate (Thermo Fisher Scientific) and images were taken using Bio-rad imager. N= 7.

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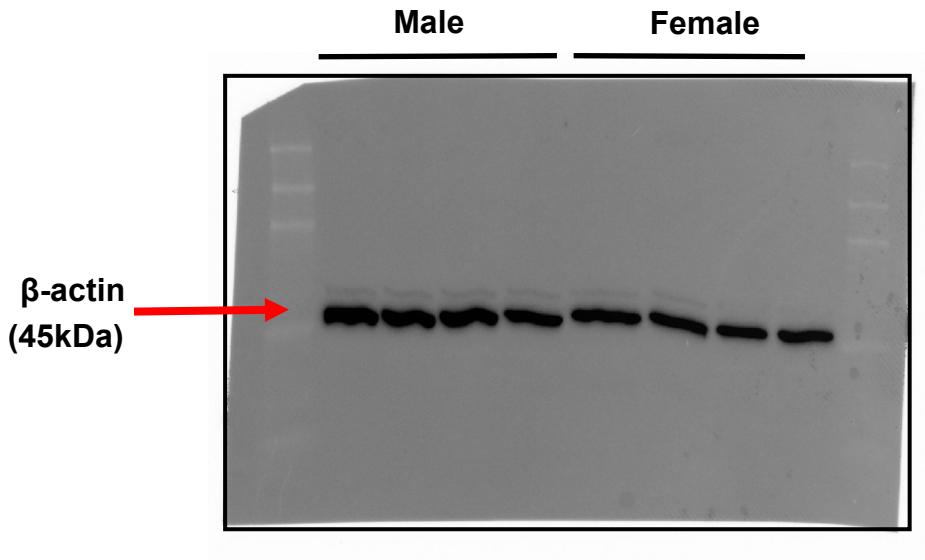
Supplemental Figure 5.



Original blot of β-actin in Figure 5C. Western blot analysis of **β-actin**. Blots were blocked for one hour (2% BSA in TBST) followed by overnight incubation at 4°C with Mouse Anti-β-Actin antibody (45 kDa, 1:1,000; Cell Signaling; 8H10D10) at a dilution of 1:1000. Blots were washed with TBST and incubated at room temperature for an hour with secondary antibody (1:10000 dilution). Blots were washed and bands were developed using SuperSignal™ West Femto Maximum Sensitivity Substrate (Thermo Fisher Scientific) and images were taken using Bio-rad imager. N= 7.

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Supplemental Table 1.

List of primers used

Cat. No	Gene	qPCR Product size
GPC52801	GeneQuery™ Mouse MT-Nd1 qPCR Primer set	70
GPC52802	GeneQuery™ Mouse SDHA qPCR Primer set	122
GPC52803	GeneQuery™ Mouse MT-Cytb qPCR Primer set	200
GPC52804	GeneQuery™ Mouse Cox 1 qPCR Primer set	80
GPC52805	GeneQuery™ Mouse MT-ATP6 qPCR Primer set	171
GPC52813	GeneQuery™ Mouse Rplp0 qPCR Primer set	79