

Supplementary Information

**The Role of Lysosomes in a Broad Disease-Modifying Approach
Evaluated across Transgenic Mouse Models of Alzheimer's Disease
and Parkinson's Disease and Models of Mild Cognitive Impairment**

**Jeannie Hwang^{1,2}, Candice M. Estick^{2,3}, Uzoma S. Ikonne¹, David Butler^{2,4*}, Morgan C. Pait^{1,5},
Lyndsie H. Elliott^{1,6}, Sarah Ruiz^{1,6}, Kaitlan Smith^{1,7}, Katherine M. Rentschler¹, Cary Mundell^{1,6},
Michael F. Almeida¹, Nicole Stumbling Bear^{1,6}, James P. Locklear^{1,6}, Yara Abumohsen^{1,6},
Cecily M. Ivey^{1,6}, Karen L.G. Farizatto^{1,6}, and Ben A. Bahr^{1,2,5-7*}**

¹William C. Friday Laboratory, Biotechnology Research and Training Center, University of North Carolina–Pembroke, Pembroke, North Carolina 28372 U.S.A.

²Department of Pharmaceutical Sciences and the Neurosciences Program, University of Connecticut, Storrs, Connecticut 06269 U.S.A.

³Department of Physiology and Neurobiology, University of Connecticut, Storrs, Connecticut 06269 U.S.A.

⁴Center for Drug Discovery, Northeastern University, Boston, Massachusetts 02115 U.S.A.

⁵Department of Chemistry and Physics, University of North Carolina–Pembroke, Pembroke, North Carolina 28372 U.S.A.

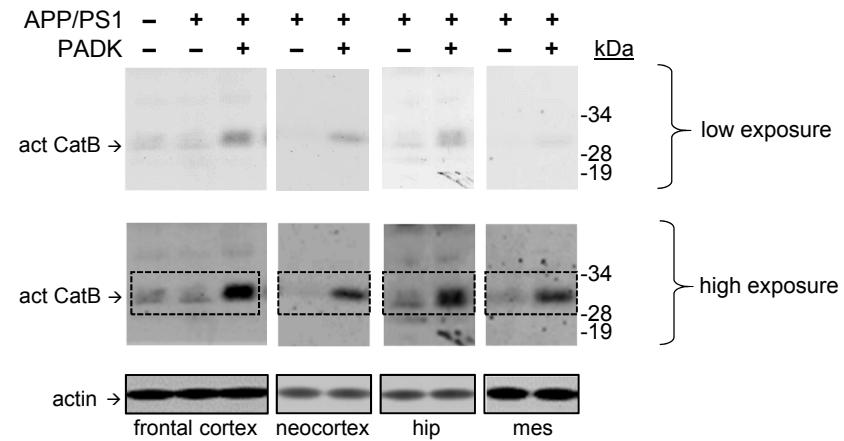
⁶Department of Biology, University of North Carolina–Pembroke, Pembroke, North Carolina 28372 U.S.A.

⁷Molecular Biotechnology Program University of North Carolina–Pembroke, Pembroke, North Carolina 28372 U.S.A.

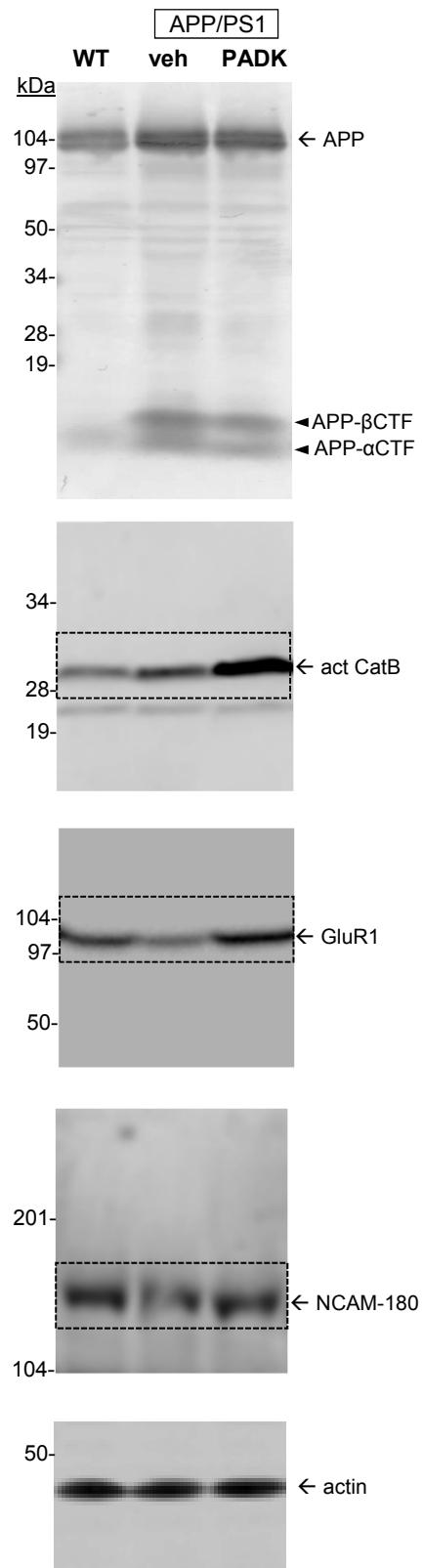
***Corresponding author:**

B.A. Bahr, Biotech Center and Training Center,
1 University Drive, University of North Carolina – Pembroke, Pembroke NC 28372
Email: Bahr@uncp.edu

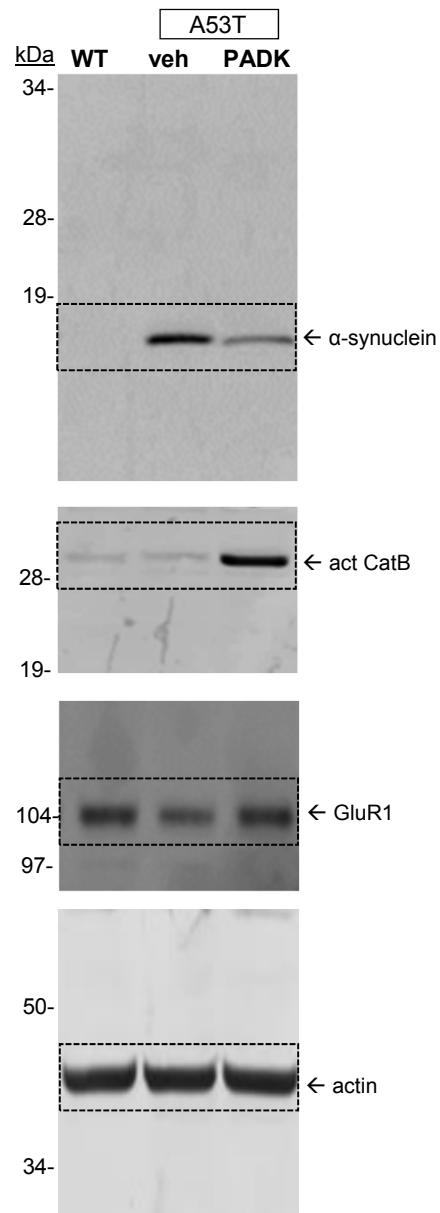
Hwang et al., supplementary information for Figure 2A



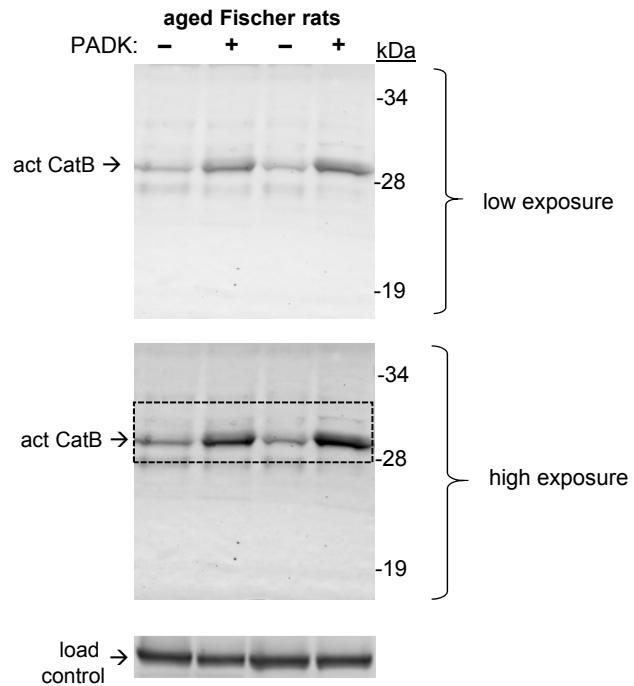
Hwang et al., supplementary information for Figure 3A



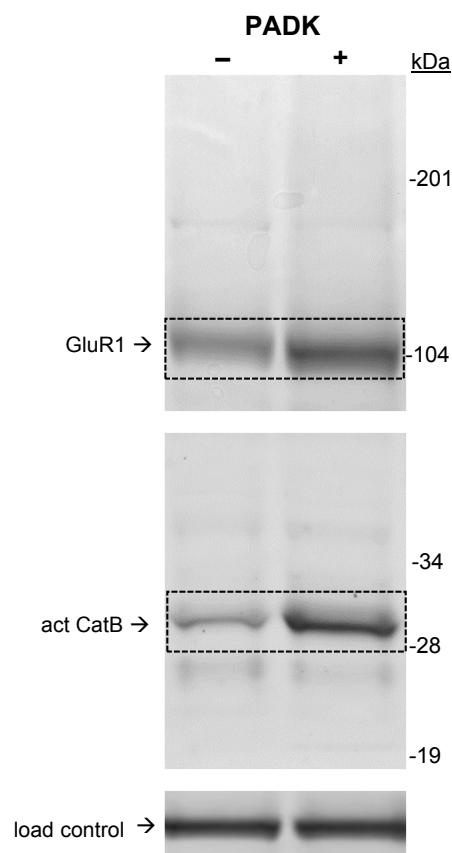
Hwang et al., supplementary information for Figure 3B



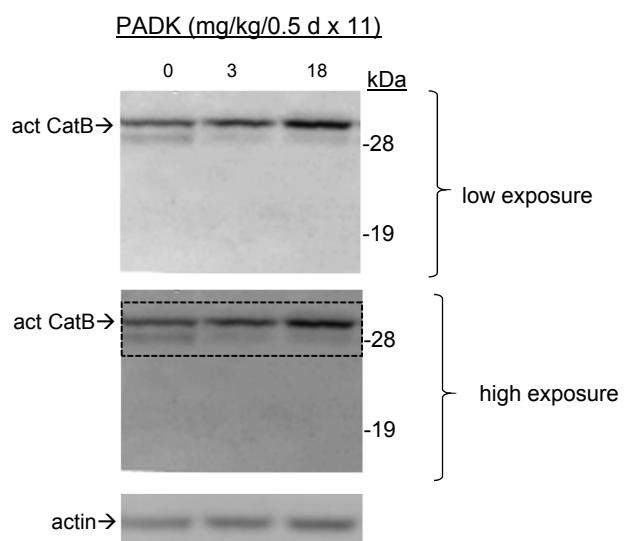
Hwang et al., supplementary information for Figure 6A



Hwang et al., supplementary information for Figure 6C



Hwang et al., supplementary information for Figure 6E



Hwang et al., supplementary information for Figure 6H

