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Supplementary Material

Altered Distribution of RhoA in Alzheimer's Disease and AβPP Overexpressing Mice

Gema Huesa[a], María Antonia Baltrons[b], Pilar Gómez-Ramos[c], Asunción Morán[c], Agustina García[b], Juan Hidalgo[a,d], Silvia Francés[a], Gabriel Santpere[e], Isidre Ferrer[e] and Elena Galea[a,f,*]
[a]*Institut de Neurociències, Universitat Autònoma de Barcelona, Spain*
[b]*Institut de Biotecnologia i Biomedicina "Villar Palasí", Departament de Bioquímica i Biologia Cellular, Universitat Autònoma de Barcelona, Spain*
[c]*Departamento de Anatomía, Histología y Neurociencia, Universidad Autónoma de Madrid, Spain*
[d]*Unitat de Fisiologia Animal, Departament de Biologia Cellular, Fisiologia i Inmunologia, Facultat de Biociències, Universitat Autònoma de Barcelona, Spain*
[e]*Institut de Neuropatologia, Servei d'Anatomia Patològica, Hospital Universitari de Bellvitge, Universitat de Barcelona, Hospitalet de Llobregat, CIBERNED, Spain*
[f]*Institut Català d'Estudis Avançats* (*ICREA*), *Spain*

[*]Corresponding author: Elena Galea, Institut de Neurocències, Edifici M, Universitat Autònoma de Barcelona, 08193 Bellaterra, Barcelona, Spain. Tel.: +34 93 581 8143; Fax: +34 93 581 1572; E-mail: Elena.Galea@uab.es.

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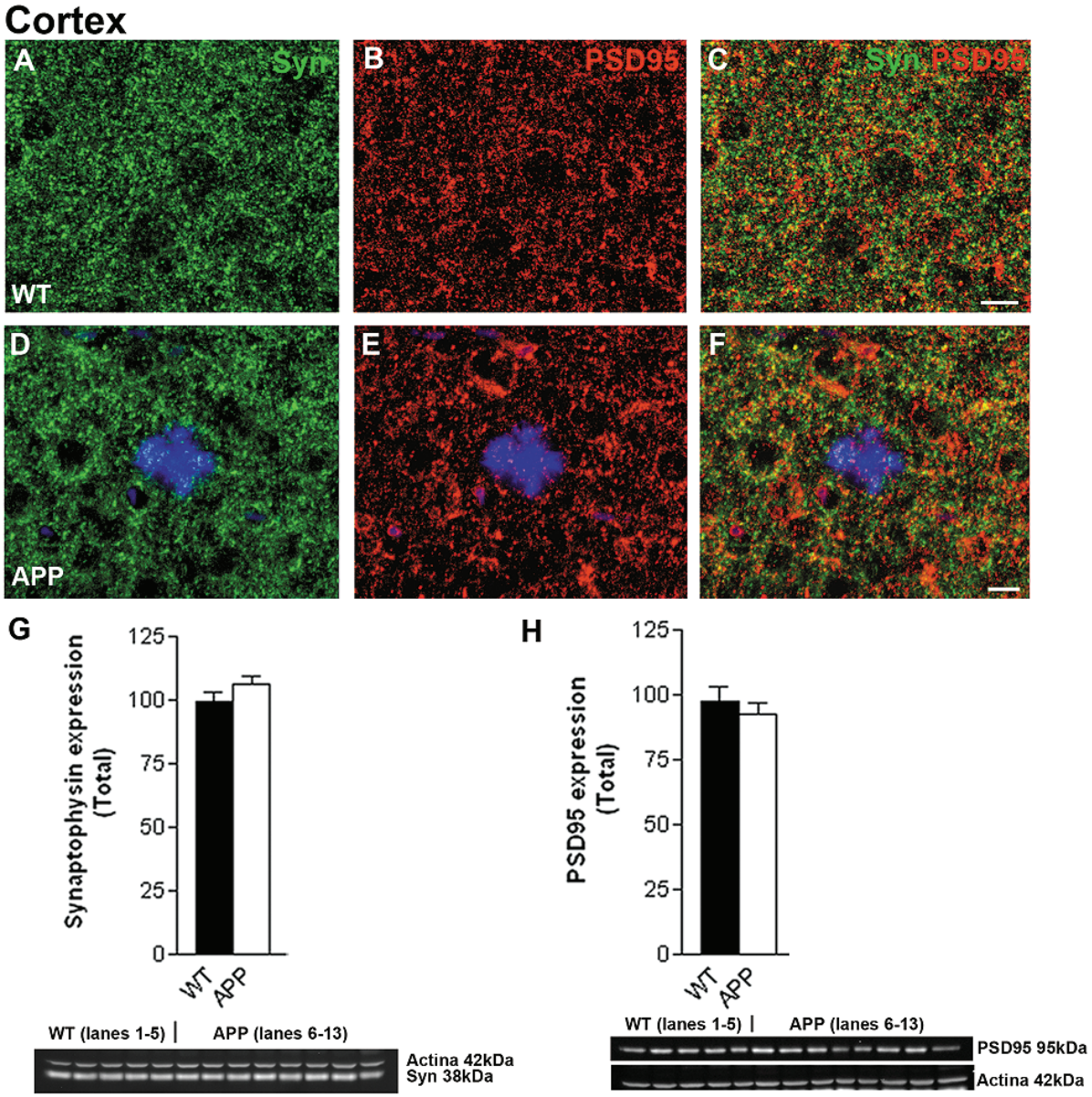
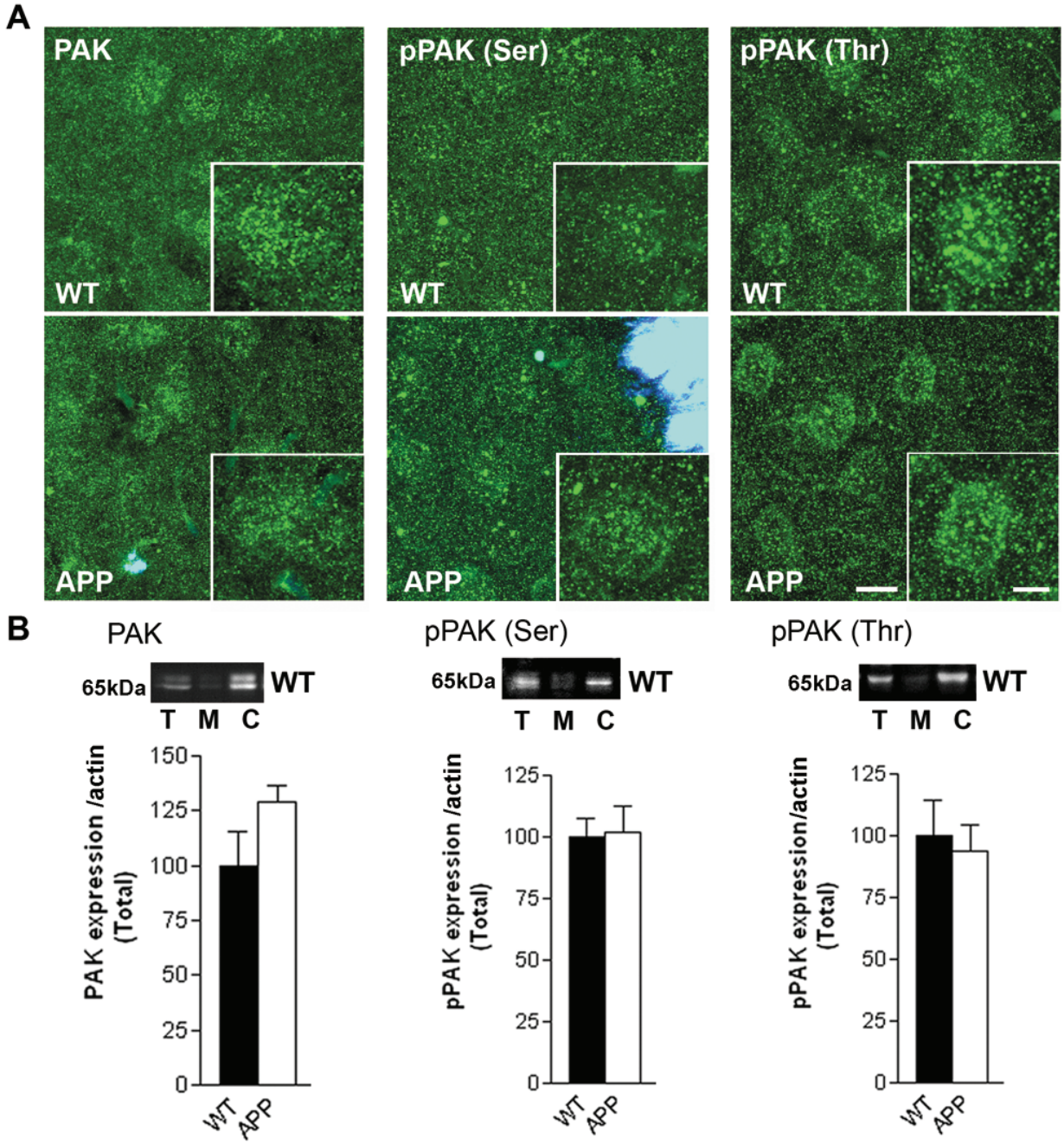


Supplementary data 1. No change in synaptophysin and PSD95 in APP brains. A-F: immunohistochemical analysis; amyloid plaque in blue. **G-H:** western blot of total homogenates normalized to actin. Data are expressed as the means $\pm$ SEM of $n = 5{-}8$. Differences between wild-type and APP are not statistically significant ($p > 0.05$). Bar: 10 μm.



Supplementary data 2. No change in the expression or localization of PAK and pPAK in APP mice. A: Immunohistochemistry of PAK, pPAKs (phosphorylated in serine) and pPAKt (phosphorylated in threonine). Distribution was punctate in the three cases, and there was no difference between controls and APP mice. B: Western blot analysis. Representative blots show membrane-to-cytosol distributions in wild-type mouse cortices. T: total, C: cytosol, and M: membrane. EAAT1 was measured in the same PVDF membranes to control for the purity of the membrane fraction. PAK as well as pPAK were mostly cytosolic with presence in membranes being barely detectable in WT or APP brains. That is, no increase was detected in APP membranes by this approach. Graphs present comparisons between wild-type and APP total cortical homogenates normalized to actin showing no change. Data are expressed as the means SEM of $n = 5{-}8$.