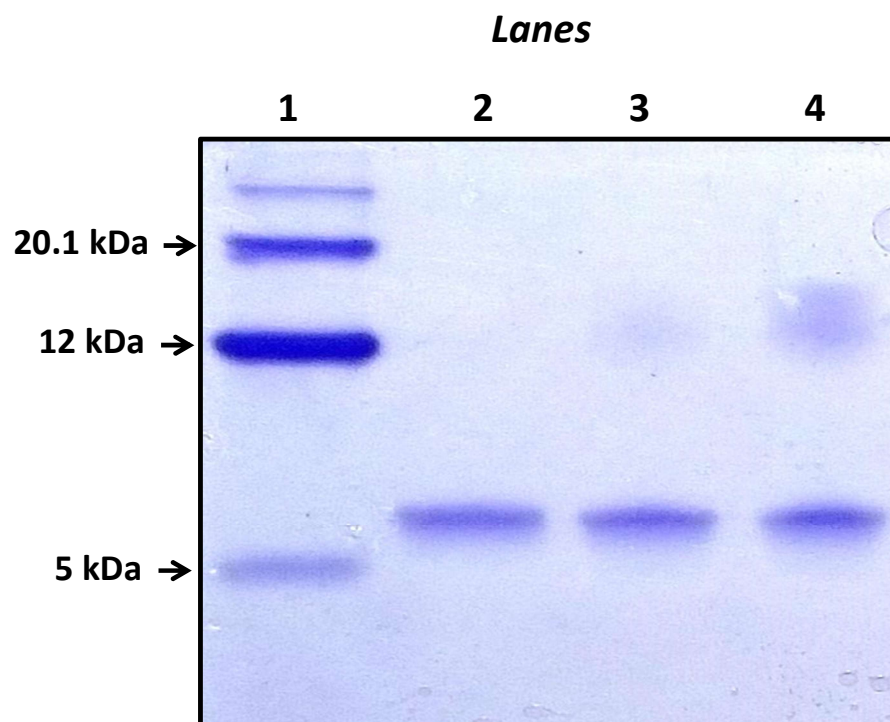
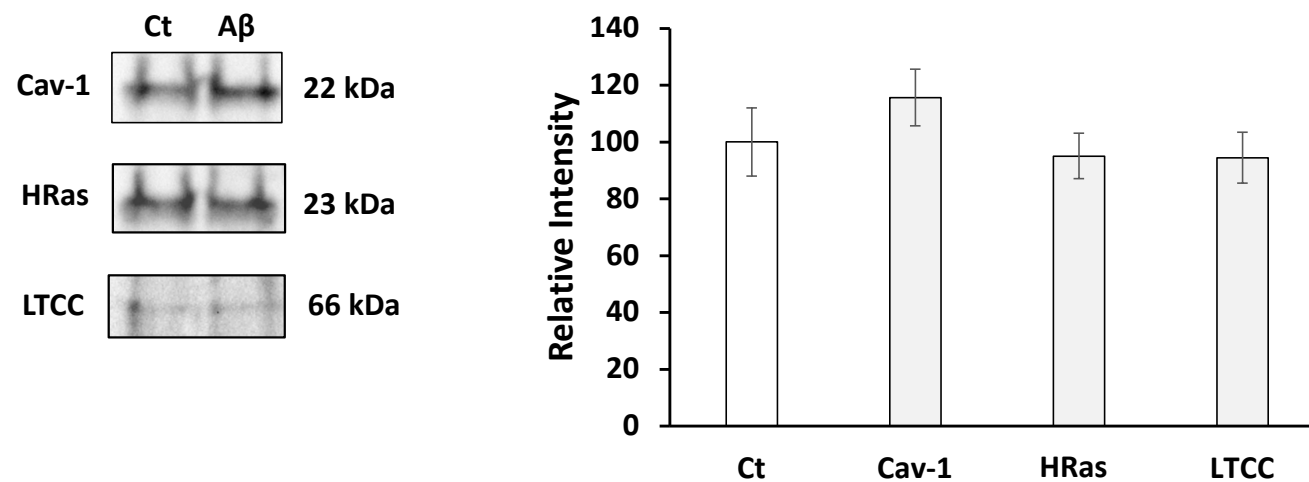


Supplementary figures
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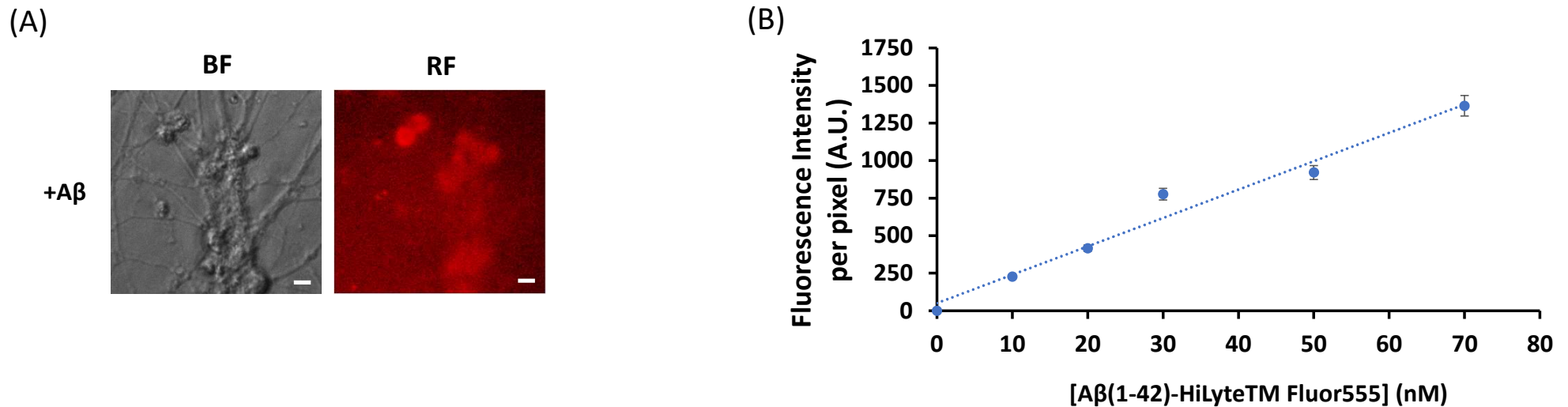


Supplementary Figure S1. Tricine-sodium dodecyl sulfate polyacrylamide electrophoresis of Aβ(1-42) solutions used in this work. Lanes: (1) Low molecular weight markers; (2) 177 μM Aβ(1-42) in phosphate-buffered saline (PBS) supplemented with 60 mM NaOH after preincubation during 2 hours at 37°C; (3) 177 μM Aβ(1-42) in PBS after preincubation during 2 hours at 37°C; (4) 177 μM Aβ(1-42) in PBS without preincubation at 37°C. Molecular weight of the Aβ(1-42) monomer = 4.514 kDa.



Supplementary Figure S2. Western blotting of caveolin-1 (anti-Cav-1, sc 894), HRas (anti-HRas, sc 32026) and LTCC (anti-LTCC β subunit, sc 25689) after co-immunoprecipitation assay with mouse anti- β -amyloid antibody (Sigma, A8354) as described in the Materials and Methods. The results shows that there is not a significant co-immunoprecipitation of these proteins by the anti- β -amyloid antibody.

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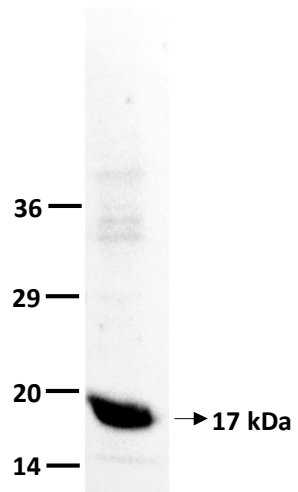


Supplementary Figure S3. Internalization of A β (1-42)-HiLyte™-Fluor555 in mature CGN. (A) Representative bright field (BF) and red fluorescence (RF) images of mature CGN after 2 hours incubation with 2 μ M A β (1-42)-HiLyte™-Fluor555 (+A β) in Dulbecco's Modified Eagle Medium (DMEM) with 25 mM KCl acquired with an excitation filter of 556 nm and a dichroic mirror of 580 nm with emission filter of 590 nm, and 0.03 s exposure time. No significant autofluorescence of CGN in the absence of A β (1-42)-HiLyte™-Fluor555 was detected over background with these experimental conditions and this short exposition time. After the 2 hours incubation of CGN with A β (1-42)-HiLyte™-Fluor555 the medium was replaced by MLocke's K25 and the Petri plate was placed in the holder of the fluorescence microscope thermostated at 37°C for images acquisition. Scale bar inserted in fluorescence microscopy images = 10 μ m. (B) Calibration of the average intensity per pixel obtained with increasing concentrations of A β (1-42)-HiLyte™-Fluor555 in MLocke's K25 in the Petri plate. A.U. means arbitrary fluorescence units. Dotted line is the result of linear regression, $R^2 = 0.9729$. The average intensity readings per pixel in CGN neuronal somas were taken from several fields for a total number of 102 cells and after subtraction of CGN autofluorescence yielded an internalized concentration of 19.3 ± 2.1 nM of A β (1-42)-HiLyte™-Fluor555 monomers by interpolation in the calibration line shown in the panel (B).

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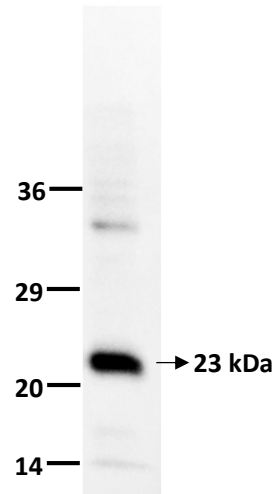
Anti-calmodulin

1716-1 (1/4000)
SDS-PAGE 12,5%



Anti-HRas

sc-32026 (1/1000)
SDS-PAGE 12,5%



Anti-caveolin1

sc-984 (1/1000)
SDS-PAGE 7.5%



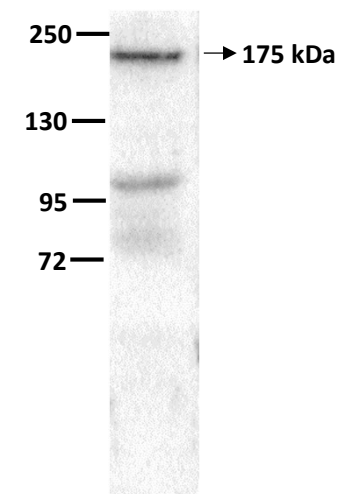
Anti-PrPc

6H4-7500997 (1/2000)
SDS-PAGE 10.4%



Anti-LTTC α 1C subunit

sc-25686 (1/1000)
SDS-PAGE 7.5%



Supplementary Figure S4. Western blotting of CGN lysates with the primary antibodies used in fluorescence microscopy images. The reference number is included for each primary antibody, as well as the dilution used for the Western blotting and the percentage of acrylamide used to run the sodium dodecyl sulfate polyacrylamide electrophoresis (SDS-PAGE) in each case.

Supplementary Figure S4 –J. Poejo *et al*_IJMS2021