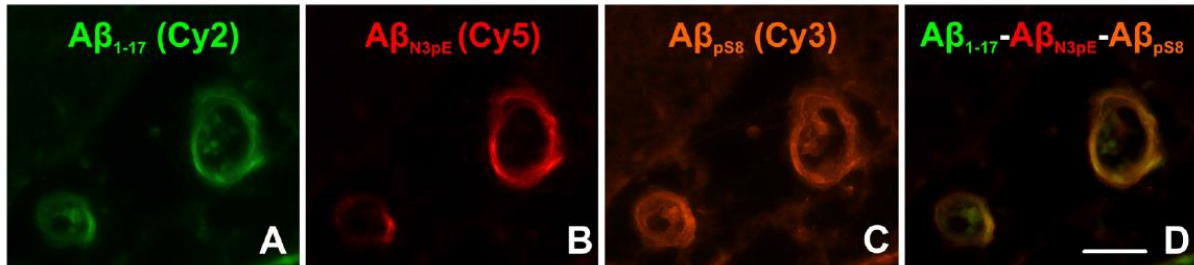


## Supplementary information



**Supplementary figure 1: Vascular colocalization of modified Aβ.** Triple label immunofluorescence was performed using antibodies directed against Aβ<sub>1-17</sub> (6E10, 1:1,250, Covance), anti-Aβ<sub>N3pE</sub> (mAb07/1-clone 6, 1:200, Probiodrugs), and anti-Aβ<sub>pS8</sub> (SA5434, 1:5)<sup>12</sup>. Antigen retrieval was performed through formic acid and heat pretreatment. Antibodies were stained subsequently to allow the pre-blocking of mouse immunoglobulin G. Carbocyanine (Cy2, Cy3, Cy5)-labeled secondary antibodies (Dianova, Hamburg) were used to detect the primary antibodies. CAA-related deposition of Aβ<sub>1-17</sub> (A), Aβ<sub>N3pE</sub> (B), and Aβ<sub>pS8</sub> (C) within the same vessels of a CAA case without plaque pathology. Colocalization of Aβ<sub>1-17</sub>, Aβ<sub>N3pE</sub>, and Aβ<sub>pS8</sub> (D) demonstrates that vascular amyloid deposits could contain all three Aβ variants. Scale bar: (A, B, C, D) 30μm.