Supporting information

Table S1. The numbers of cored and diffuse plaques labeled with qFTAA and hFTAA in different neocortex regions of rpAD and spAD cases.

	Rapidly Progressive AD			Slowly Progressive AD		
LCOs-stained plaques	Frontal	Occipital	Temporal	Frontal	Occipital	Temporal
qFTAA (Cored)	65	63	59	49	46	47
qFTAA (Diffuse)	41	38	26	30	39	53
hFTAA (Cored)	34	24	16	12	15	14
hFTAA (Diffuse)	50	42	44	14	36	27

Table S2. Heat map of statistical differences between rpAD and spAD for distinct amyloid plaque morphotypes labeled with qFTAA and hFTAA. Distribution of p-values for different spectral attributes of (A) hFTAA and (B) qFTAA in diffuse and cored plaques in different anatomical areas of rpAD and spAD cases

Plaques	hFTAA spectrum	Frontal	Occipital	Temporal
type	wv ratio	Р	Р	Р
Diffuse	550/510	0.773851	0.072882	0.000023
	580/510	0.91783	0.074463	0.000039
	580/500	0.775709	0.177533	0.002167
	550/500	0.869628	0.169321	0.002172
Cored	550/510	0.005598	0.11206	0.002965
	580/510	0.006311	0.116872	0.005995
	550/500	0.000068	0.000547	0.009073
	580/500	0.000118	0.02255	0.016235

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Plaques	qFTAA spectrum	Frontal	Occipital	Temporal
type	wv ratio	Р	Р	P
Cored	500/510	0.00035	0.084676	0.002149
Diffuse	500/510	0.000343	0.000001	0.526484



Figure S1. Distinct deposit patterns of A β detected with qFTAA, hFTAA, and conformation-sensitive antibody (OC). Typical confocal fluorescent images obtained with qFTAA, hFTAA, and conformation-sensitive OC antibody in different amyloid plaque morphotypes and cerebral amyloid angiopathy (CAA). Red fluorescence represents OC-positive A β deposits; green fluorescence represents A β aggregates labeled with qFTAA or hFTAA; DAPI-stained nuclei are in blue; scale bars – 20µm.