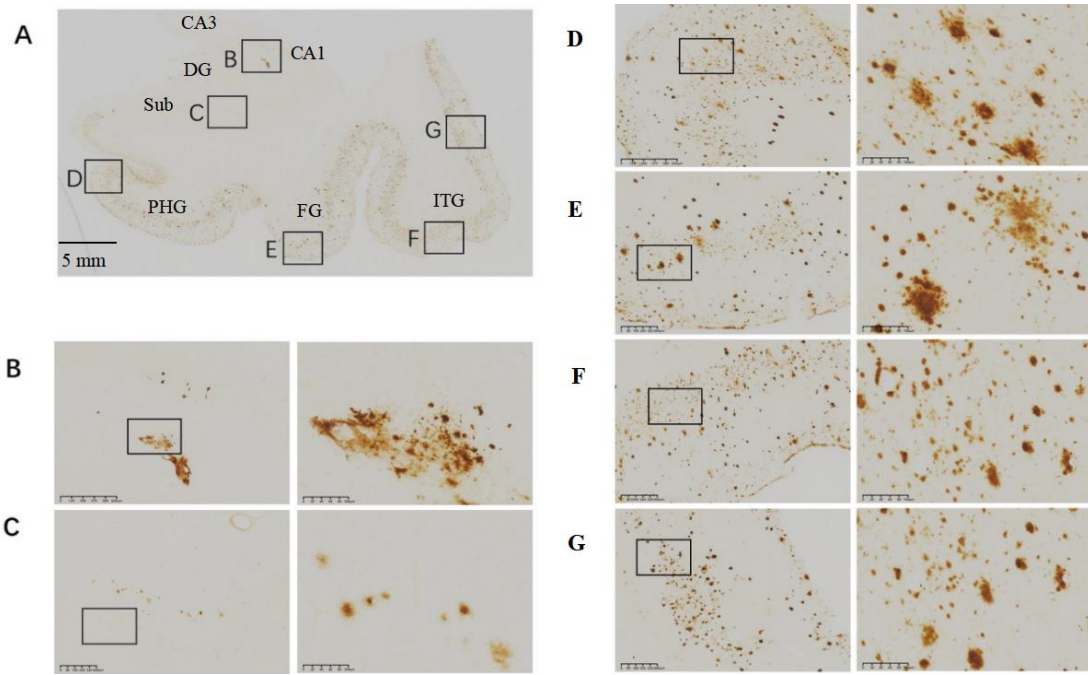


Supplementary Figure 1 The phosphorylated-microtubule-associated protein tau (P-Tau) antibody against neurofibrillary tangles in AD hippocampal formation. A: immunohistochemical staining in a coronal section of the human hippocampal formation; B: AT8 immunoreactivity in the CA3 region at a high magnification view; C: AT8 immunoreactivity in the CA1 region at a high magnification view; D: AT8 immunoreactivity in the PHG region at a high magnification view. Scale bars in A = 5 mm; B, C, D = 400 μm.



Supplementary Figure 2 The specific 6E10 antibody against A β plaques in AD hippocampal formation. A: 6E10 immunohistochemical staining in a coronal section of the human hippocampal formation. B: 6E10 immunoreactivity in the CA1 region at a high magnification view; C: 6E10 immunoreactivity in the Sub region at a high magnification view; D: 6E10 immunoreactivity in the PHG region at a high magnification view; E: 6E10 immunoreactivity in the FG region at a high magnification view; F and G: 6E10 immunoreactivity in the ITG region at a high magnification view. Scale bars in A = 5 mm; B, C, D, E, F, G = 400 μ m.

Supplementary Table 1 Demographic information of brain donors and staging of Alzheimer-related neuropathology.

Group	Case	Age (years)	Gender	Clinical diagnosis and cause of death	Braak stage	NTFs	Thal phase	A β	CERAD score
Control group ($n = 9$; age: 72.33 ± 10.33)	1	75	Male	Respiratory failure	0		0		0
	2	57	Male	Respiratory failure	0		0		0
	3	81	Female	Leukemia	0		0		0
	4	54	Male	Diabetes	0		0		0
	5	74	Male	Cerebral infarction	0		0		0
	6	85	Male	Diabetes	0		0		0
	7	76	Female	Lung cancer	0		0		0
	8	77	Female	Multisystem failure	0		0		0
	9	72	Female	Multisystem failure, demented	0		0		0
pAD/AD group ($n = 10$; age: 79 ± 7.85)	10	82	Female	Respiratory failure	III		1		B
	11	76	Male	Cerebral hemorrhage	II		2		B
	12	74	Female	Lung cancer	VI		4		C
	13	96	Female	Alzheimer's disease	IV		1		C

14	87	Male	Alzheimer's disease	IV	4	C
15	87	Female	Alzheimer's disease	VI	6	C
16	74	Female	Alzheimer's disease	IV	3	C
17	74	Male	Alzheimer's disease	VI	5	C
18	73	Male	Alzheimer's disease	VI	5	C
19	75	Female	Multisystem failure	VI	4	C
