

Table S5 The demographic data of the used subset from validation cohort.

	Serum sample				<i>P</i>
	CN	MCI	ALS	FTD	
N	31	41	14	14	NA
Male/female	19/12	17/24	9/5	7/7	0.29
Age Diagnosis, mean ± SD	61.39 ± 9.41	65.88 ± 8.32	62 ± 1.57	60.86 ± 8.80	0.07
MMSE, Mean ± SD	28.16± 1.57	24.10 ± 2.95	NA	NA	<0.001
Education(years), Mean ± SD	6.03 ± 3.32	7.67 ± 3.38	NA	NA	0.04
APOE E4 carrier (%)	11.20%	41.50%	NA	NA	<0.001

CN: cognitive normal; MCI: mild cognitive impairment; ALS: amyotrophic lateral sclerosis; FTD: frontotemporal dementia; *P*: NC VS. MCI+AD;

NA: not applicable; SD: standard deviation