Supplementary Table 1. Logistic Regression Analysis: Lower MTRs in the AD-signature regions relate to AD, independently of normalized regional brain volume and white matter damage.

MTR Regions	OR	95% CI	P value †
Hippocampus	0.71	0.43 - 1.18	0.19
Parahippocampal cortex	0.61	0.37 - 0.99	**0.04**
Cuneus	0.26	0.09 - 0.73	**0.01**
Precuneus	0.24	0.12 - 0.45	**<.001**
Enthorinal cortex	0.57	0.35 - 0.95	**0.03**
Inferior parietal lobule	0.45	0.19 - 1.05	0.06

Note. — MTR: magnetization transfer ratio, OR: odds ratio, CI: confidence interval, AD: Alzheimer´s disease

†corrected for age, sex, years of education, normalized regional volume and Fazekas score

Supplementary Table 2. Linear regression analysis in AD: MTRs in the AD-signature regions and cognitive performance

MTR regions	MMSE n=77			Constructional Praxis (CERAD subtest for figure copying), n=73		
	β	95% CI	P value †	β	95% CI	P value †
Hippocampus	0.29	0.03 - 2.22	**0.04**	0.11	-0.45 - 1.00	0.45
Parahippocampal cortex	0.14	-0.43 - 1.37	0.30	0.38	0.28 - 1.41	**0.006**
Cuneus	0.32	0.26 - 1.95	**0.01**	0.45	0.51 - 1.56	**<.001**
Precuneus	0.03	-0.77 - 0.99	0.80	-0.03	-0.63 - 0.52	0.85
Enthorinal cortex	0.09	-0.54 - 1.21	0.45	0.35	0.25 - 1.28	**0.004**
Inferior parietal lobule	0.11	-0.45 - 1.16	0.42	0.24	-0.13 - 1.31	0.11

Note. — MTR: magnetization transfer ratio, β: standardized regression coefficient; CI: confidence interval, AD: Alzheimer´s disease.

†corrected for age, sex, years of education, normalized regional volume and Fazekas score