

Supplementary Table 1. Mean $\pm$ standard deviation of the grand average P3 peak amplitude of CNA $\beta$ <sup>+</sup> and CNA $\beta$ <sup>-</sup> at Fz/Cz/Pz across testing conditions			
Variables		CNA $\beta$ <sup>+</sup> (n= 17) Mean $\pm$ Std. Dev.	CNA $\beta$ <sup>-</sup> (n = 17) Mean $\pm$ Std. Dev.
Fz Amplitude ( $\mu$ V)			
0-back	Nontarget	2.068 $\pm$ 3.312	4.156 $\pm$ 3.124
	Target	4.374 $\pm$ 3.701	5.302 $\pm$ 3.825
	Difference	-0.437 $\pm$ 2.447	3.616 $\pm$ 2.471
1-back	Nontarget	3.248 $\pm$ 4.574	4.748 $\pm$ 8.184
	Target	3.758 $\pm$ 4.620	2.962 $\pm$ 4.370
	Difference	1.043 $\pm$ 2.187	3.170 $\pm$ 6.262
2-back	Nontarget	2.686 $\pm$ 2.211	3.669 $\pm$ 6.709
	Target	3.914 $\pm$ 3.309	2.358 $\pm$ 2.694
	Difference	0.537 $\pm$ 1.592	1.851 $\pm$ 5.785
Cz Amplitude ( $\mu$ V)			
0-back	Nontarget	2.424 $\pm$ 1.990	4.416 $\pm$ 7.628
	Target	2.325 $\pm$ 2.980	3.018 $\pm$ 1.452
	Difference	0.484 $\pm$ 2.931	1.887 $\pm$ 6.130
1-back	Nontarget	2.794 $\pm$ 2.187	2.978 $\pm$ 2.126
	Target	2.405 $\pm$ 3.056	2.264 $\pm$ 2.208
	Difference	1.078 $\pm$ 2.931	1.887 $\pm$ 5.785
2-back	Nontarget	1.762 $\pm$ 1.508	1.926 $\pm$ 6.730
	Target	2.475 $\pm$ 2.574	1.821 $\pm$ 4.806
	Difference	0.314 $\pm$ 1.464	0.726 $\pm$ 2.282
Pz Amplitude ( $\mu$ V)			
0-back	Nontarget	1.246 $\pm$ 1.709	1.364 $\pm$ 1.362
	Target	2.646 $\pm$ 1.766	3.493 $\pm$ 3.123
	Difference	0.333 $\pm$ 2.266	0.589 $\pm$ 2.100
1-back	Nontarget	2.035 $\pm$ 2.657	1.958 $\pm$ 1.571
	Target	2.410 $\pm$ 2.540	3.068 $\pm$ 2.747
	Difference	0.499 $\pm$ 1.909	0.409 $\pm$ 1.401
2-back	Nontarget	1.093 $\pm$ 1.9656	2.144 $\pm$ 2.281
	Target	1.021 $\pm$ 2.130	2.226 $\pm$ 2.121
	Difference	0.824 $\pm$ 1.621	0.733 $\pm$ 1.178
Abbreviations: CNA $\beta$ , cognitively normal, beta-amyloid			

Supplementary Table 2. Peak P3 latency at Fz/Cz/Pz across testing conditions of CNA $\beta$ <sup>+</sup> and CNA $\beta$ <sup>-</sup>			
Variables		CNA $\beta$ <sup>+</sup> Mean $\pm$ Std. Dev.	CNA $\beta$ <sup>-</sup> Mean $\pm$ Std. Dev.
Fz Latency (ms)			
0-back	Nontarget	418 $\pm$ 82	461 $\pm$ 80
	Target	399 $\pm$ 91	405 $\pm$ 98
	Difference	497 $\pm$ 83	470 $\pm$ 84
1-back	Nontarget	415 $\pm$ 81	461 $\pm$ 80
	Target	401 $\pm$ 90	403 $\pm$ 100
	Difference	491 $\pm$ 85	469 $\pm$ 84
2-back	Nontarget	418 $\pm$ 79	463 $\pm$ 81
	Target	404 $\pm$ 92	403 $\pm$ 100
	Difference	490 $\pm$ 86	476 $\pm$ 78
Cz Latency (ms)			
0-back	Nontarget	420 $\pm$ 86	455 $\pm$ 89
	Target	409 $\pm$ 86	431 $\pm$ 89
	Difference	476 $\pm$ 99	438 $\pm$ 104
1-back	Nontarget	416 $\pm$ 85	452 $\pm$ 93
	Target	413 $\pm$ 86	429 $\pm$ 89
	Difference	472 $\pm$ 98	443 $\pm$ 103
2-back	Nontarget	418 $\pm$ 84	458 $\pm$ 90
	Target	417 $\pm$ 90	426 $\pm$ 92
	Difference	471 $\pm$ 98	450 $\pm$ 101
Pz Latency (ms)			
0-back	Nontarget	380 $\pm$ 108	404 $\pm$ 114
	Target	408 $\pm$ 82	404 $\pm$ 93
	Difference	421 $\pm$ 122	387 $\pm$ 112
1-back	Nontarget	379 $\pm$ 105	404 $\pm$ 113
	Target	406 $\pm$ 83	403 $\pm$ 93
	Difference	421 $\pm$ 122	391 $\pm$ 115
2-back	Nontarget	377 $\pm$ 106	411 $\pm$ 115
	Target	410 $\pm$ 84	405 $\pm$ 95
	Difference	415 $\pm$ 121	400 $\pm$ 118
Abbreviations: CNA $\beta$ , cognitively normal, beta-amyloid			

Supplementary Table 3. Event-related power ( $\mu\text{V}/\text{Hz}^2$ ) of CNA $\beta$ + (n = 17) and CNA $\beta$ - (n = 17) at Fz/Cz/Pz, across testing conditions. (Mean  $\pm$  Std. Dev.)

		Fz Channel		Cz Channel		Pz Channel	
		CNA $\beta$ +	CNA $\beta$ -	CNA $\beta$ +	CNA $\beta$ -	CNA $\beta$ +	CNA $\beta$ -
Delta Band							
0-back	Nontarget	0.443 $\pm$ 0.455	1.916 $\pm$ 3.681	0.328 $\pm$ 0.322	0.601 $\pm$ 1.111	0.086 $\pm$ 0.132	0.096 $\pm$ 0.153
	Target	0.371 $\pm$ 0.328	3.763 $\pm$ 3.979	0.285 $\pm$ 0.305	1.519 $\pm$ 5.064	0.207 $\pm$ 0.289	0.319 $\pm$ 0.799
	Difference	0.397 $\pm$ 0.390	-1.288 $\pm$ 1.392	0.129 $\pm$ 0.131	-0.800 $\pm$ 4.018	0.128 $\pm$ 0.215	-0.043 $\pm$ 0.709
1-back	Nontarget	0.600 $\pm$ 0.787	1.343 $\pm$ 2.841	0.289 $\pm$ 0.352	0.273 $\pm$ 0.217	0.078 $\pm$ 0.081	0.069 $\pm$ 0.086
	Target	0.593 $\pm$ 1.206	0.359 $\pm$ 0.464	0.167 $\pm$ 0.158	0.199 $\pm$ 0.189	0.140 $\pm$ 0.174	0.142 $\pm$ 0.237
	Difference	0.526 $\pm$ 0.937	1.455 $\pm$ 3.763	0.150 $\pm$ 0.224	0.116 $\pm$ 0.149	0.124 $\pm$ 0.164	0.073 $\pm$ 0.100
2-back	Nontarget	0.309 $\pm$ 0.286	2.217 $\pm$ 6.668	0.213 $\pm$ 0.308	0.364 $\pm$ 0.718	0.059 $\pm$ 0.091	0.087 $\pm$ 0.105
	Target	0.413 $\pm$ 0.580	0.797 $\pm$ 2.353	0.245 $\pm$ 0.449	0.223 $\pm$ 0.381	0.100 $\pm$ 0.176	0.059 $\pm$ 0.064
	Difference	0.215 $\pm$ 0.314	1.518 $\pm$ 4.346	0.072 $\pm$ 0.082	0.135 $\pm$ 0.334	0.046 $\pm$ 0.073	0.034 $\pm$ 0.059
Theta Band							
0-back	Nontarget	0.168 $\pm$ 0.145	0.208 $\pm$ 0.202	0.117 $\pm$ 0.167	0.102 $\pm$ 0.095	0.039 $\pm$ 0.081	0.022 $\pm$ 0.026
	Target	0.145 $\pm$ 0.096	0.278 $\pm$ 0.539	0.107 $\pm$ 0.133	0.126 $\pm$ 0.206	0.051 $\pm$ 0.088	0.033 $\pm$ 0.046
	Difference	0.085 $\pm$ 0.073	-0.006 $\pm$ 0.368	0.050 $\pm$ 0.064	0.001 $\pm$ 0.130	0.035 $\pm$ 0.048	0.007 $\pm$ 0.027
1-back	Nontarget	0.236 $\pm$ 0.230	0.167 $\pm$ 0.096	0.150 $\pm$ 0.204	0.085 $\pm$ 0.052	0.049 $\pm$ 0.089	0.023 $\pm$ 0.026
	Target	0.182 $\pm$ 0.136	0.151 $\pm$ 0.155	0.128 $\pm$ 0.167	0.079 $\pm$ 0.048	0.051 $\pm$ 0.089	0.030 $\pm$ 0.038
	Difference	0.125 $\pm$ 0.264	0.081 $\pm$ 0.122	0.040 $\pm$ 0.057	0.027 $\pm$ 0.019	0.027 $\pm$ 0.048	0.018 $\pm$ 0.024
2-back	Nontarget	0.203 $\pm$ 0.193	0.222 $\pm$ 0.391	0.148 $\pm$ 0.196	0.072 $\pm$ 0.059	0.055 $\pm$ 0.114	0.016 $\pm$ 0.018
	Target	0.185 $\pm$ 0.166	0.189 $\pm$ 0.351	0.140 $\pm$ 0.179	0.062 $\pm$ 0.052	0.054 $\pm$ 0.104	0.020 $\pm$ 0.023
	Difference	0.050 $\pm$ 0.069	0.052 $\pm$ 0.063	0.035 $\pm$ 0.062	0.015 $\pm$ 0.012	0.017 $\pm$ 0.021	0.009 $\pm$ 0.011

Alpha Band							
0-back	Nontarget	0.050 ± 0.041	0.052 ± 0.054	0.034 ± 0.037	0.029 ± 0.031	0.018 ± 0.032	0.008 ± 0.009
	Target	0.085 ± 0.070	0.083 ± 0.089	0.061 ± 0.075	0.046 ± 0.047	0.025 ± 0.038	0.013 ± 0.017
	Difference	0.039 ± 0.034	0.017 ± 0.053	0.031 ± 0.037	0.011 ± 0.030	0.018 ± 0.031	0.009 ± 0.020
1-back	Nontarget	0.059 ± 0.045	0.046 ± 0.036	0.045 ± 0.052	0.026 ± 0.019	0.016 ± 0.024	0.008 ± 0.008
	Target	0.075 ± 0.070	0.060 ± 0.051	0.056 ± 0.076	0.035 ± 0.024	0.024 ± 0.045	0.012 ± 0.012
	Difference	0.028 ± 0.022	0.030 ± 0.033	0.019 ± 0.024	0.016 ± 0.017	0.010 ± 0.015	0.007 ± 0.005
2-back	Nontarget	0.055 ± 0.056	0.039 ± 0.024	0.045 ± 0.061	0.022 ± 0.016	0.019 ± 0.036	0.006 ± 0.007
	Target	0.084 ± 0.091	0.048 ± 0.034	0.065 ± 0.084	0.026 ± 0.018	0.023 ± 0.037	0.013 ± 0.017
	Difference	0.034 ± 0.049	0.015 ± 0.022	0.019 ± 0.028	0.008 ± 0.009	0.008 ± 0.010	0.009 ± 0.016
Beta Band							
0-back	Nontarget	0.006 ± 0.007	0.007 ± 0.007	0.004 ± 0.006	0.003 ± 0.003	0.002 ± 0.002	0.001 ± 0.001
	Target	0.009 ± 0.007	0.014 ± 0.015	0.005 ± 0.006	0.006 ± 0.006	0.002 ± 0.002	0.003 ± 0.003
	Difference	0.009 ± 0.007	0.010 ± 0.015	0.006 ± 0.006	0.004 ± 0.006	0.003 ± 0.002	0.003 ± 0.005
1-back	Nontarget	0.006 ± 0.004	0.005 ± 0.003	0.004 ± 0.004	0.003 ± 0.002	0.002 ± 0.003	0.002 ± 0.001
	Target	0.009 ± 0.008	0.008 ± 0.005	0.005 ± 0.005	0.004 ± 0.003	0.003 ± 0.004	0.002 ± 0.002
	Difference	0.009 ± 0.009	0.009 ± 0.007	0.006 ± 0.007	0.005 ± 0.004	0.003 ± 0.003	0.003 ± 0.002
2-back	Nontarget	0.006 ± 0.004	0.005 ± 0.003	0.004 ± 0.004	0.003 ± 0.002	0.002 ± 0.002	0.002 ± 0.001
	Target	0.012 ± 0.016	0.008 ± 0.006	0.007 ± 0.012	0.004 ± 0.002	0.004 ± 0.005	0.003 ± 0.003
	Difference	0.013 ± 0.019	0.007 ± 0.008	0.008 ± 0.016	0.004 ± 0.004	0.004 ± 0.005	0.003 ± 0.004
Abbreviations: CNAβ, cognitively normal beta-amyloid							