

Supplementary Material

Vaccination Prevented Short-Term Memory Loss, but Deteriorated Long-Term Spatial Memory in Alzheimer's Disease Mice, Independent of Amyloid- β Pathology

Supplementary Table 1. Parameters of immunohistochemical stainings of A β plaques, microglia and immature neurons in mice immunized at later ages; regression study. DHP, dorsal hippocampus; PFC, prefrontal cortex.

	Total plaque load	Microglia activity DHP	Microglia activity PFC	Neurogenesis
Mock	8152 \pm 1249	14.0 \pm 0.8	14.5 \pm 2.3	0.11 \pm 0.04
Vaccine	9648 \pm 1221	13.8 \pm 0.7	13.8 \pm 0.6	0.14 \pm 0.06

Supplementary Table 2. Antibody titers at sacrifice for the 3 cyclic peptide conjugates and for A-beta in mice immunized at later ages; regression study

	C(22-28)BSA	C(23-29)BSA	C(22-29)BSA	A β
Mock	1.08 \pm 0.37	1.59 \pm 0.39	1.09 \pm 0.33	2.23 \pm 0.38
Vaccine	4.23 \pm 0.09	4.55 \pm 0.08	4.24 \pm 0.15	2.97 \pm 0.24