

SUPPORTING INFORMATION

Inhibition of LTP-induced translation by IL-1 β reduces the level of newly synthesized proteins in hippocampal dendrites

G. Aleph Prieto^{1*}, Erica D. Smith¹, Liqi Tong¹, Michelle Nguyen¹, Carl W. Cotman^{1,2}

¹Institute for Memory Impairments and Neurological Disorders, University of
California-Irvine, Irvine, CA 92697 USA

²Department of Neurobiology and Behavior, University of California-Irvine,
Irvine, CA 92697 USA

FIGURE S1

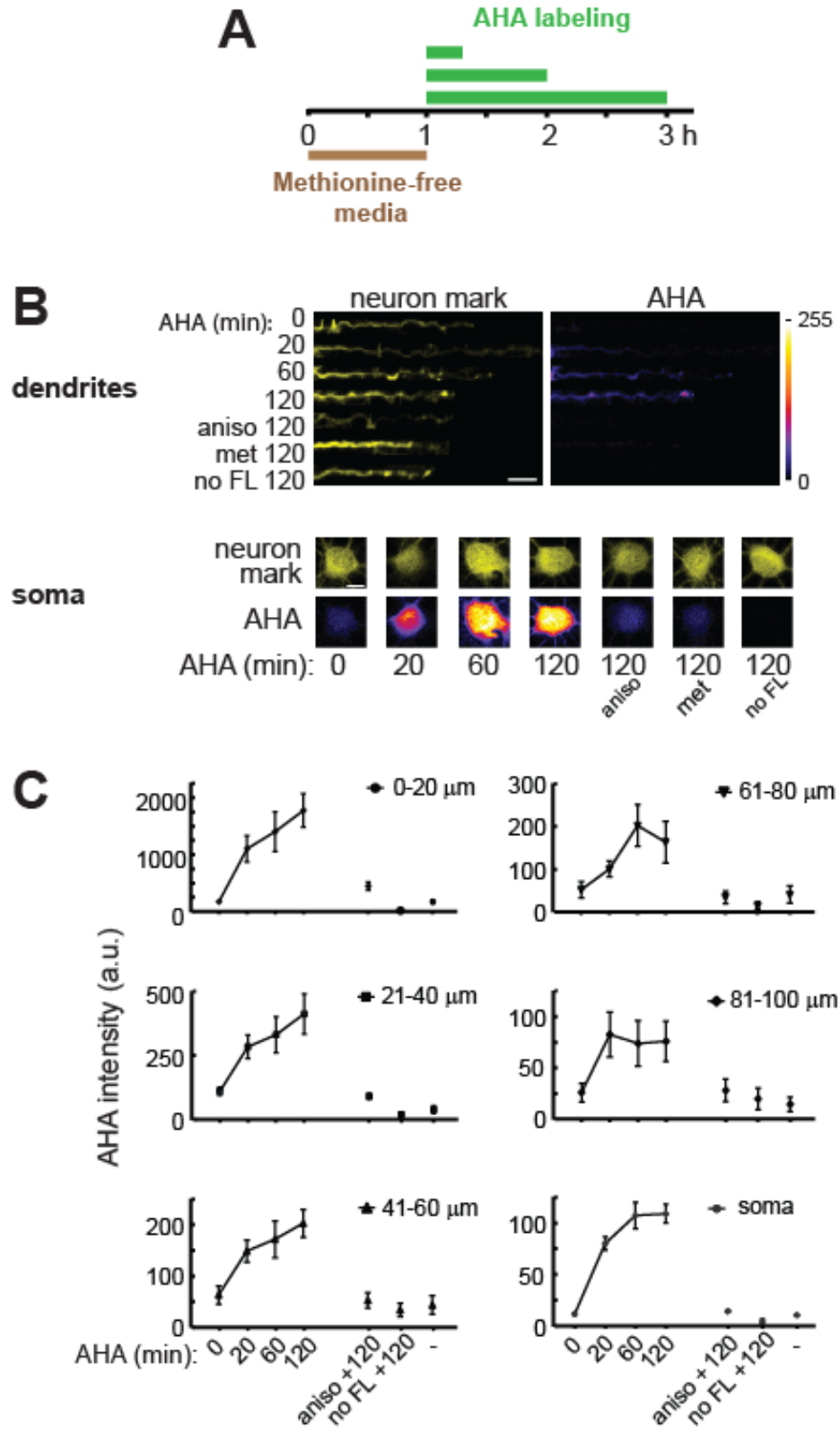


Figure S1. Quantification of newly-synthesized proteins by click-chemistry at 20, 60 and 120 min. Outline of the experiment (A). Neuron cultures incubated for the time points indicated with 2 μ M AHA, 2 mM methionine (Met), 2 μ M AHA in the presence of 40 μ M anisomycin (aniso), or 2 μ M AHA without fluorescent tag during cycloaddition reaction (no FL). Representative straightened dendrites (left, proximal; right, distal) and soma for time points and treatments indicated; scale bars 20 and 10 μ m, for dendrites and soma, respectively. Representative examples are shown (B). Mean AHA intensities \pm s.e.m. of the dendrites in 20- μ m bins; per time point, data from 14–22 dendrites were analyzed. Mean AHA intensities \pm s.e.m. of the somata; per time point, data from 17–32 cells was collected and analyzed using ImageJ. Note the differences in the Y-axis scale on plots (C).