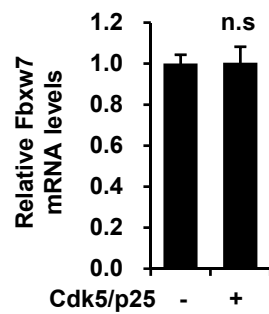
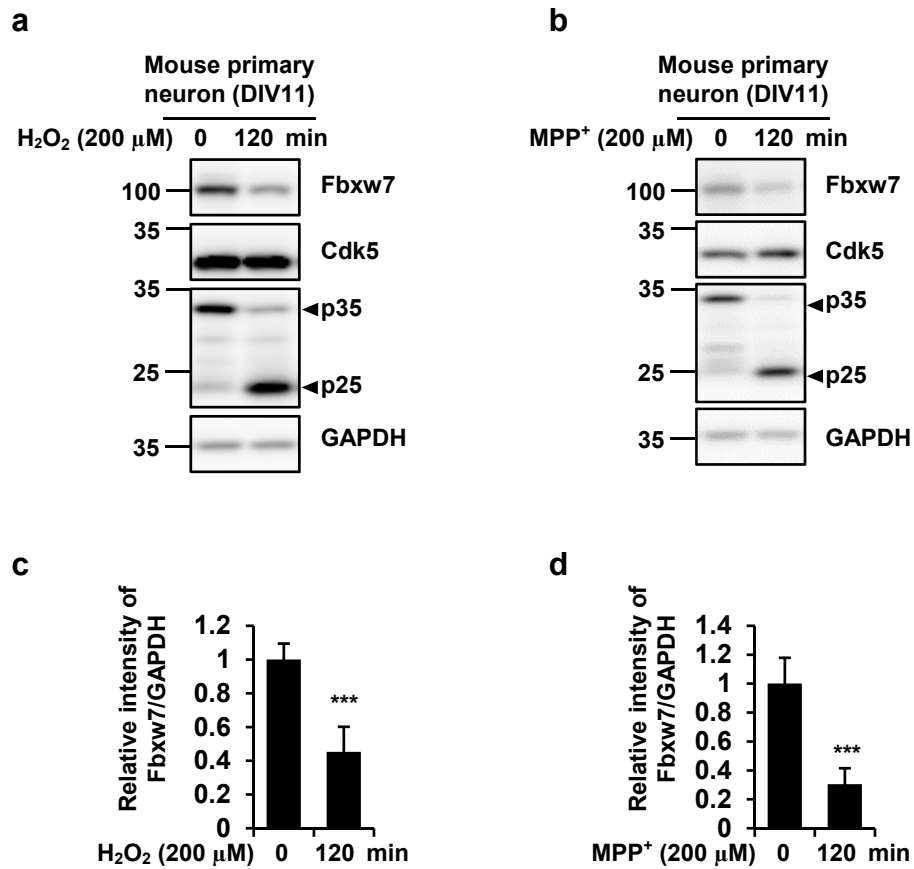


Supplementary Figure 1. Cdk5/p35 phosphorylates Fbxw7. (a) *In vitro* kinase assay for detecting phosphorylation of Fbxw7 by Cdk5/p35. Purified GST-Fbxw7 protein (1 μ g) was incubated with or without 0.1 μ g recombinant GST-Cdk5/GST-p25 protein in the presence of [γ - 32 P] ATP. (b) To inhibit Cdk5 kinase activity, samples were treated with 10 μ M roscovitine for 30 min before reaction. Reaction mixtures were resolved by SDS-PAGE and visualized by autoradiography. Coomassie brilliant blue (CBB) staining for GST-Fbxw7 protein was used as a loading control.



Supplementary Figure 2. Overexpression of Cdk5/p25 dose not affect mRNA levels of Fbxw7. HEK293T cells were transfected with vector containing the sequences with or without Cdk5/p25. Total RNA were extracted and subjected to qRT-PCR. Data were normalized to the internal control (GAPDH) and presented as a relative expression level over the control (value = 1). Bar represents the mean \pm SD from four independent experiments. n.s, not significant



Supplementary Figure 3. Decreased expression of Fbxw7 is detected in other pathological conditions. At DIV11, primary cultures of cortical neurons were treated with **(a)** 200 μM hydrogen peroxide (H_2O_2) for 120 min and **(b)** 200 μM MPP^+ iodide (MPP^+) for 120 min, respectively. Cell lysates were harvested and analyzed by IB using the indicated antibodies. **(c, d)** Relative fold intensity of Fbxw7 was quantified over the non-treated control (value = 1). Bar represents the mean \pm SD from three independent experiments. *** $p < 0.001$.