**Supplemental Information.**

Anesthetic sevoflurane acts on ubiquitination-proteasome pathway

to reduce postsynaptic density 95 levels in young mice

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**Supplementary Figure 1.**

**Supplementary Figure 1. Confirmation of the extraction of synaptosome.** We killed the mice by using decapitation on P6 and harvested hippocampus from the mice. The tissues were weighed and dounced in a grinder using SynPER synaptic protein extraction reagent (cat# 87793, Thermo Scientific). Immediately before use, protease inhibitor cocktail from Sigma (cat# 11836170001, St. Louis, MO, USA) was added to the Syn-PER reagent. Mice tissues were dounced using Syn-PER synaptic protein extraction reagent using a 7-ml Dounce tissue grinder with 15 up and down even strokes. The mouse brain tissue homogenate was centrifuged at 2,000 g for 10 minutes to remove cell debris. The resulting supernatant was centrifuged at 15,000 g for 20 minutes. The supernatant formed the cytosolic fraction and the synaptosome pellet was gently resuspended in Syn-PER synaptic protein extraction reagent. Total protein from mouse brain tissue homogenates, cytosol fraction, and synaptosome suspension were analyzed by Western blot. The pre- and post-synaptic protein markers evaluated include synaptophysin, post-synaptic density protein-95 (PSD-95). The levels of PSD-95 and synaptophysin in synaptosome (lane 3) were higher than those in homogenates (lane 1) and cytosol (lane 2). These data suggest successful isolation of synaptosomes.