

Supporting Information

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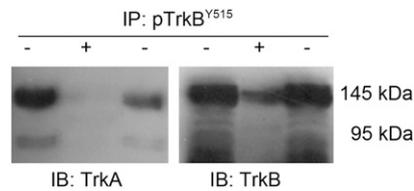


Fig. S1. Anti-pTrkB^{Y515} does not cross react with TrkA in hippocampus. Coimmunoprecipitation was used to evaluate the specificity of the pTrkB^{Y515} antisera used in localization studies. Acute hippocampal slices were homogenized and protein levels were normalized before incubation with anti-rabbit pTrkB^{Y515} (overnight at 4 °C). Control samples were incubated with IgG. Immunocomplexes were then incubated with protein A agarose (80µl/mL; Upstate) for 2 h at 4 °C, washed, collected through centrifugation with Spin Filters and Collection Tubes (CytoSignal) and eluted in reducing sample buffer. Samples were processed for Western blot analysis using rabbit antisera against TrkA or TrkB. As shown, immunoprecipitation with anti-phospho-TrkB^{Y515} (+) or IgG (-) pulldown immunoreactivity for TrkB (see 145 kDa band, *Right*) but not TrkA (*Left*).

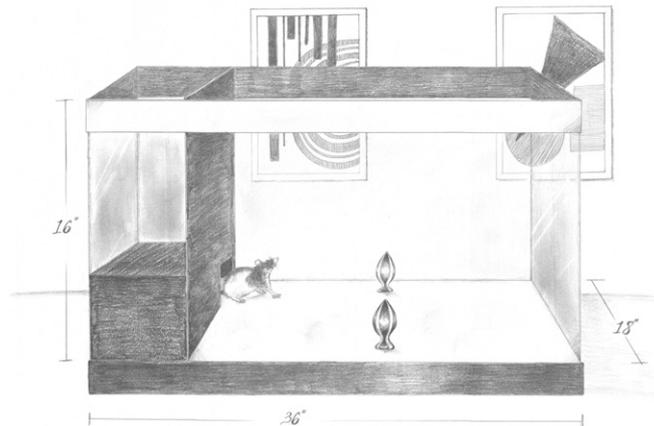


Fig. S2. Open field environment used for behavioral testing. Illustration of the Plexiglas test chamber containing an enclosed dark compartment (about 1/5 of the whole chamber). Floor and wall dimensions are 91.4 cm long, 45.7 cm wide, and 40.6 cm high. The top of the chamber is open and objects on the wall of the test room wall are visible from within the chamber. The same test system was used in Fig. 1. Artwork by Anita Y. Chen.

