**Supplementary Figure 3** Transient developmental increase in gap junction coupling and Cx36 expression are mediated by action potential–dependent mechanisms. Data from dye coupling (upper panel) and western blot (lower panel) experiments in control (DIV16) and tetrodotoxin–treated (TTX; DIV4–16) cultures are shown. The number of dye–coupled primary–labeled neurons and the total number of primary–labeled neurons are indicated. Coupling indexes ranged from 1 to 4. Western blot is representative of 3 independent experiments. Statistical significance was determined by the Fisher's exact probability test.