Supplementary Figure 4. Inward rectification is dependent on intracellular spermine. Left: Inward rectification (IR: $I_{-60mV}/I_{+40mV}$) of AMPA receptor currents observed in normal reared (NR) somatosensory cortical cells was abolished when using intracellular solution without spermine (Spermine: $IR = 3.87 \pm 0.46$, $n = 10$ cells; No spermine: $IR = 1.02 \pm 0.04$, $n = 4$ cells). Asterisk indicates statistically significant difference (Student’s t-test: $P < 0.001$). Middle: Comparison of AMPAR I-V curves between NR somatosensory cortical cells recorded with (white circles) and without spermine (black squares). Right: Superimposed representative traces of evoked AMPA receptor-mediated currents measured at $-60$ mV and $+40$ mV from NR somatosensory cortical neurons recorded with or without spermine inside the recording pipette.