Supplementary Fig. 3

Astrocytic $\text{Ca}^{2+}$ responses to whisker stimulation are not modulated by 2-photon excitation when laser power is low. (a) Imaging capturing of fluo-4 signal was first started 6 s after initiation of whisker stimulation. Three serial sections collected at 110, 120, and 130 $\mu$m below the pia surface were captured every 4.3 s. The peak increase of $\text{Ca}^{2+}$ in astrocytic cell body was of similar amplitude as astrocytic responses to whisker stimulation recorded during continuous low power laser scanning (Fig. 1-5) ($p = 0.34$, t-test). Scale bare, 20$\mu$m. (b) Traces of relative changes in $\Delta F/F$ in the cell bodies of 6 astrocytes numbered in (a). (c) Mean increases in $\Delta F/F$ plotted as a function of time after initiation of whisker stimulation. ($n = 8$ experiments from 5 animals).