**Supplemental Figure 2: Identification of presynaptic cells with immunoelectron microscopy in Srf mutants**

Synaptoporin immunohistochemistry labels the mossy fiber projection. In Srf mutants the synaptoporin immunopositive mossy fibers enter aberrantly the stratum pyramidale (outlined by dotted lines) of CA3 (arrows in a). (b) Electron microscopic image of the stratum pyramidale in the CA3 region stained for the synaptic vesicle protein Synaptoporin. Note the strong DAB-immunoreactivity within the mossy fibers (arrows) terminating between CA3 pyramidal neurons (pc).

Abbreviations: str. pyr., stratum pyramidale; str. luc., stratum lucidum

scale-bar: 5 µm