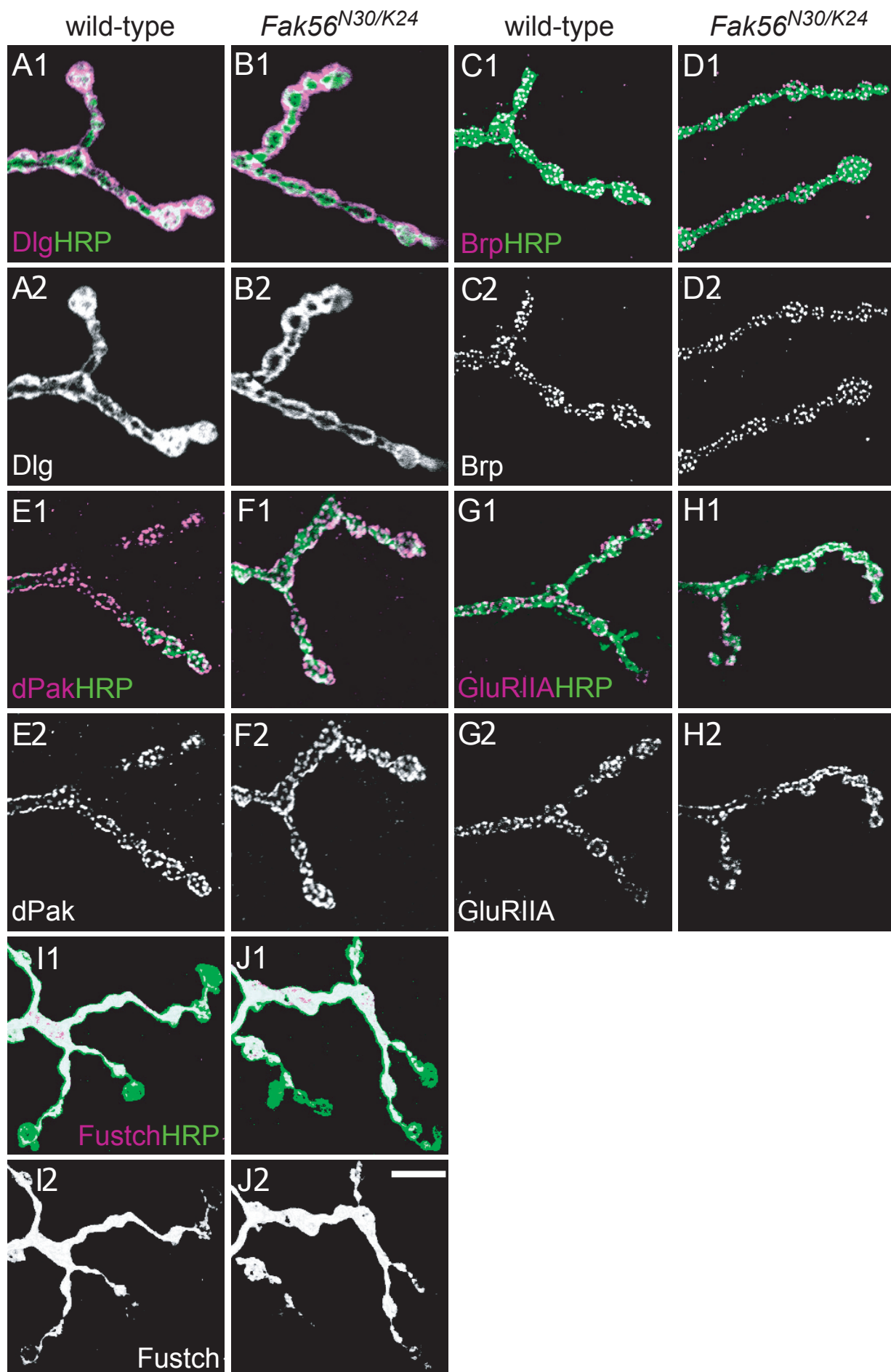




Additional file 2. Expression of NMJ proteins in *Fak56^{null}*

(A-H) Expressions of Dlg (magenta in A1 and B1, white in A2 and B2) in postsynapses, Brp (magenta in C1 and D1, white in C2 and D2) at presynaptic active zones, dPak (magenta in E1 and F1, white in E2 and F2) and GluRIIA (magenta in G1 and H1, white in G2 and H2) in postsynaptic active zones, and Fustch (magenta in I1 and J1, white in I2 and J2) for synaptic microtubules are shown for wild-type (A1, C1, E1, G1 and I1) and *Fak56^{N30/K24}* (B1, D1, F1, H1 and J1) at NMJ 4s that were co-stained with HRP (green). The expression patterns and intensities of these proteins were identical between wild-type and *Fak56^{N30/K24}*. Images in (A-H) come from single section of the Z-stack confocal image and in (I and J) come from Z-stack projection. For GluRIIA staining, Bouin's fixative solution (Sigma Chemical Co.) was used [1]. Primary antibodies were used against Dlg (4F3, 1:100, DHSB), Brp (nc82, 1:100, DHSB), GluRIIA (8B4D2, 1:100, DHSB), dPAK (rabbit, 1:4000) and Fustch (22C10, 1:100, DHSB). Normal NMJ bouton ultrastructure in *Fak56^{N30/K24}*

References:

1. Marrus SB, Portman SL, Allen MJ, Moffat KG, DiAntonio A: **Differential localization of glutamate receptor subunits at the *Drosophila* neuromuscular junction.** *J Neurosci* 2004, **24**:1406-1415.