

Supplementary table S1.

<b>protein</b>	<b>Ab source or reference</b>	<b>Change in ko PSD</b>
<b>Postsynaptic scaffolds</b>		
IRSp53	Soltau et al., 2004	absent
PSD-95	Upstate	no
SAPAP1/GKAP	Stefan Kindler, Hamburg, Germany	no
Homer	Carlo Sala, Milano, Italy	no
Shank1+Shank2	Zitzer et al., 1999	no
Shank3	Böckers et al., 1999	no
Densin-180	Quitsch et al., 2005	Increased
sharpin	Eunjoon Kim, Daejeon, Korea	no
<b>cytoskeleton</b>		
actin	Upstate	no
cortactin	Upstate	no
$\alpha$ -fodrin/ $\alpha$ -spectrin	Chemicon	no
Abp1/SH3p7/HIP-55	Abcam	no
<b>G-proteins and signalling</b>		
cdc42	BD Biosciences	no
rac	Upstate	no
rho	Santa Cruz	no
rap1	BD Biosciences	no
Ras	BD Biosciences	no
betaPIX	Chemicon	no
PAK	Santa Cruz	no
$\delta$ -catenin	BD Biosciences	no
Mena	BD Biosciences	no
Eps8	BD Biosciences	no
WAVE2	Upstate	no
Abi-1	MBL International	no
Sos	BD Biosciences	no
$\alpha$ CaMKII	Chemicon	no
$\alpha$ CaMKII (Thr286-phospho)	Cell Signaling Technologies	no
Arc/arg3.1	BD Biosciences	no
<b>Transmitter receptors</b>		
NMDAR1	Chemicon	increased
NMDAR2A/B	Chemicon	increased
NMDAR2B	Affinity Bioreagents	increased
NMDAR2A	Chemicon	increased
GluR1	Chemicon	no
mGluR5	Carlo Sala, Milano, Italy	no
stargazin	Upstate	no

List of antibodies which were used for quantification of proteins in PSD from wt and IRSp53 deficient animals