**Supplementary Table 1. Antibodies employed in this study**

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| **Antibody** | **Clone name/ catalog number** | **Specific** | **Type** | **Dilution** | **Source** |
| Anti-SET (phospho S9) | TAF-1 | Phosphorylated SET at Ser 9 | pAb | 1:200 for WB1:50 for IF | Abmart |
| Anti-CK2a antibody  | 8E5 | CK2a | mAb | 1:1000 for WB1:100 for IF | Abcam |
| Tau-1 | TAU-1 | Dephosphorylated tau at Ser198, 199/Ser202 | mAb | 1:25000 for WB  | Chemicon |
| Tau-5 | TAU-5 | Total tau | mAb | 1:1000 for WB | Lab Vision |
| Anti-Tau (pS396)  | Cat # 710298 | Phosphorylated tau at Ser396  | pAb | 1:1000 for WB | Biosource |
| Anti-Tau (pS404)  | Cat # 44-758G | Phosphorylated tau at Ser404  | pAb | 1:1000 for WB | Biosource |
| Anti-Tau (pS199) | Cat # 44-734G | Phosphorylated tau at Ser199  | pAb | 1:1000 for WB | Biosource |
| Anti-Tau (pT231)  | Cat # 710126 | Phosphorylated tau at Thr231  | pAb | 1:1000 for WB | Biosource |
| Anti-Tau (pS262) | **C**at # 44-750G | Phosphorylated tau at Ser262  | pAb | 1:1000 for WB | Biosource |
| Anti-Tau(pS202,pT205) | AT8 | Phosphorylated PHF tau at Ser202+ Ser205 | mAb | 1:1000 for WB | Thermo |
| Synaptotagmin | ASV30 | Total synaptotagmin | mAb | 1:1000 for WB | Abcam |
| Synaptophysin | [ab32594](http://www.abcam.cn/synaptophysin-antibody-ab32594.html) | SYP245-258  | pAb | 1:1000 for WB | Abcam |
| β-actin | AC-15 | β-actin | mAb | 1:1000 for WB | Sigma |
| PSD93 | ab2930 | Post Synaptic Density 93  | pAb | 1:1000 for WB | Abcam |
| PSD95 | 2507 | Post Synaptic Density 95 | pAb | 1:1000 for WB | Cell Signaling Technology |
| STAT1 | ab31369 | Total STAT1 | pAb | 1:1000 for WB | Abcam |
| STAT1 pY701 |  M135 | Phosphorylated STAT1 at Tyr701 | mAb | 1:1000 for WB | Abcam |
| NR2B | Ab65783 | NMDAR2B C-term | pAb | 1:1000 for WB | Abcam |

CK2, casein kinase 2; IF, immunofluorescence; mAb, monoclonal antibody; pAb, polyclonal antibody; WB, Western blot.