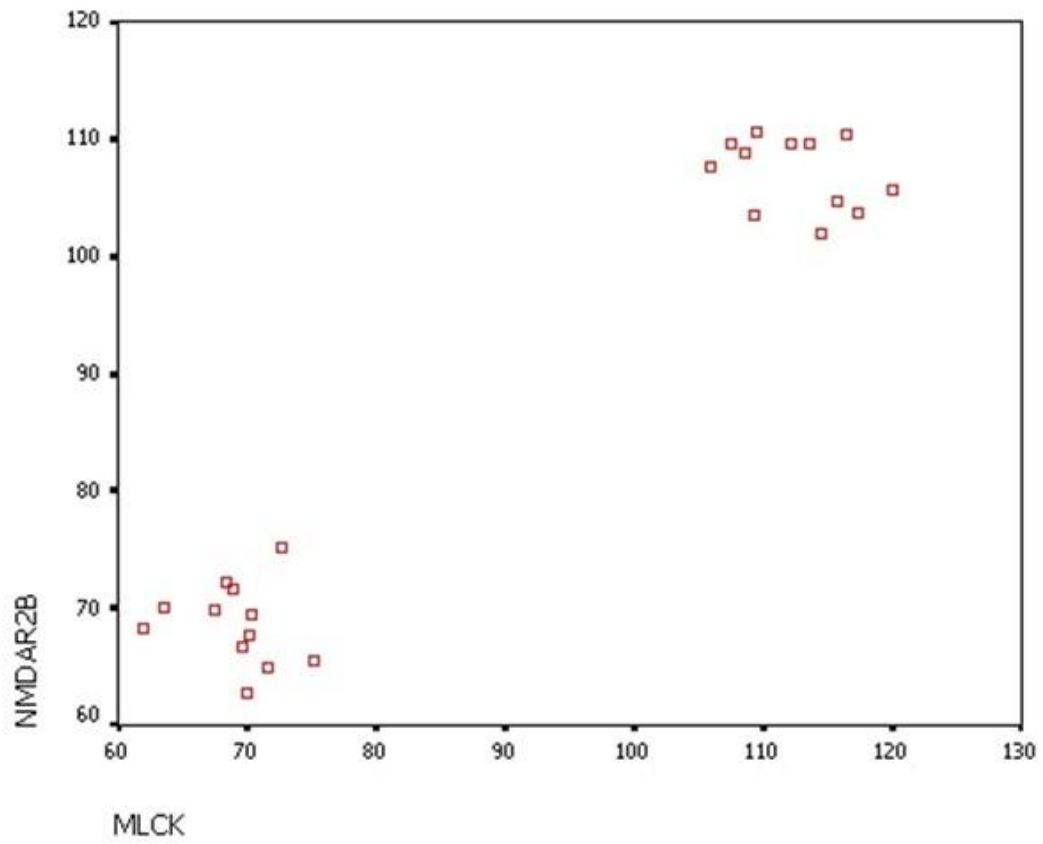
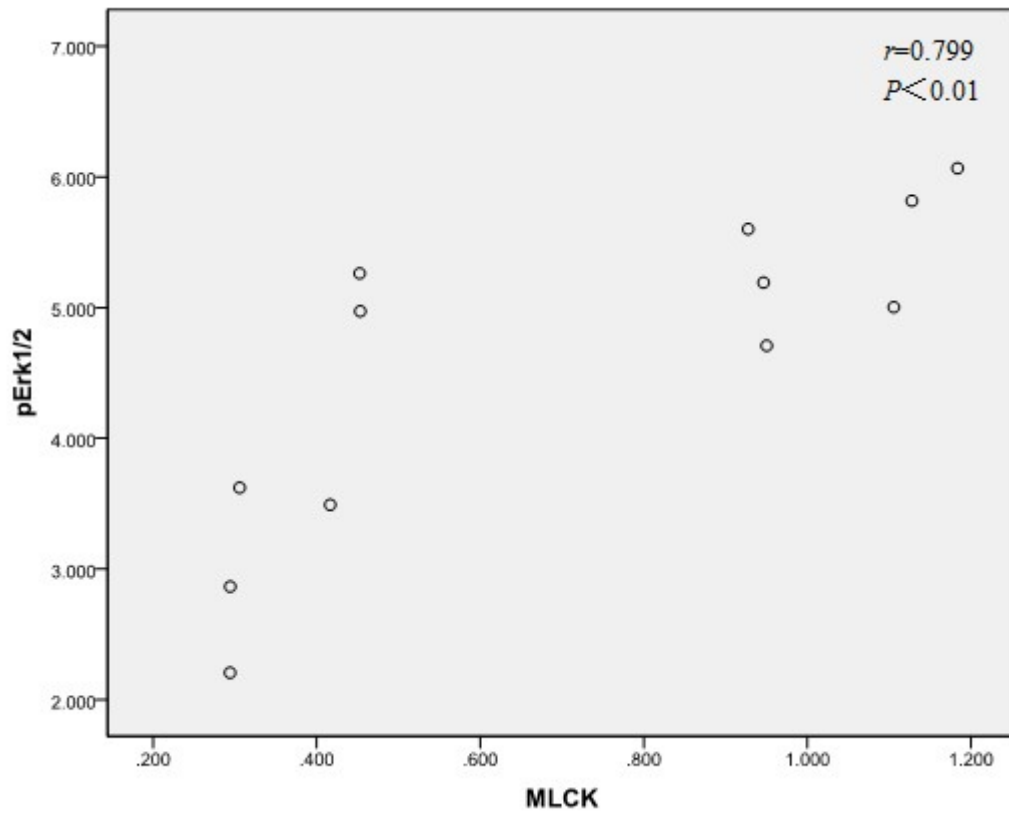


Supplementary Figure legends



Supplementary FIGURE.1 The Correlation analysis of MLCK and NMDAR2B expression ($r=0.958$, $P < 0.01$)



Supplementary FIGURE. 2 The Correlation analysis of MLCK and phosphorylated ERK expression

($r=0.799, P<0.01$)

Supplementary TABLE1 Optical density values of MLCK and NMDAR2B in hippocampal tissue in rats by immunofluorescence staining

	Group A (n=20)	Group B (n=31)
MLCK	69.31±9.36	112.31±8.73*
NMDAR2B	68.92±8.33	106.91±8.44*
Co-expression of MLCK andNMDAR2B	61.33±8.55	101.82±7.68*

* P<0.05, compared to group A

Supplementary Table2 The results of morris water maze test

	Group A (n=12)	Group B (n=12)	Group C (n=12)	Group D (n=12)
escape latency (s)	12.97±7.98	30.40±12.68 [△]	14.73±7.49**	18.23±6.56*
first-passsge time (s)	8.43±7.35	32.77±19.66 [△]	10.58±6.53**	16.29±8.74*
The times of cross	3.62±2.31	1.44±1.34 [△]	3.60±2.12**	2.25±1.59*

△compared with group A, $P<0.01$; * compared with group B, $P<0.05$, ** compared with group B,

$P<0.01$