Reviewer's report

Title: GluN2B protein deficits in the left, but not the right, hippocampus in schizophrenia

Version: 2 Date: 22 July 2014

Reviewer: Kenji Hashimoto

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The authors measured the levels of GluN2B protein in the hippocampus of schizophrenia and control using Western Blot analysis and [3H]ifenprodil binding assay. They found that GluN2B protein was decreased in the left hemisphere of hippocampus from schizophrenia although [3H]ifenprodil binding was not changed.

This paper is of interest for the readers of the journal, but the following points should be addressed before publication.

Comments:
1) Introduction: The use of [3H]ifenprodil binding for GluN2B was mentioned.
2) It is well known that [3H]ifenprodil binds to sigma-1 and sigma-2 receptors (Hashimoto et al., Eur. J. Pharmacol. 1993; 1994). These papers should be cited. The reasons for use of (+)3-PPP should be mentioned in the method section.
3) Ifenprodil also binds to alpha-1 adrenergic receptor. Please comment this.

Level of interest: An article of importance in its field

Quality of written English: Acceptable

Statistical review: No, the manuscript does not need to be seen by a statistician.

Declaration of competing interests:

I declare that I have no competing interests.