

# **COCAINE SELF-ADMINISTRATION AND ABSTINENCE MODULATE NMDA RECEPTOR SUBUNITS AND ACTIVE ZONE PROTEINS IN THE RAT NUCLEUS ACCUMBENS**

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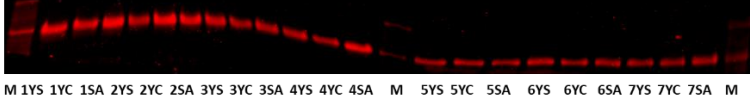
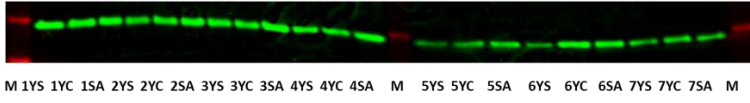
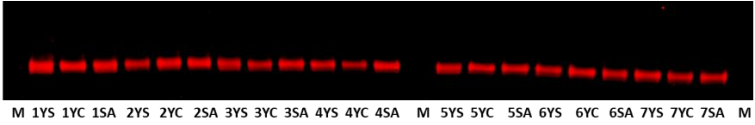
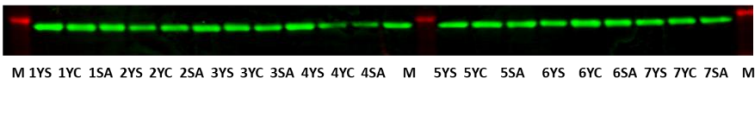
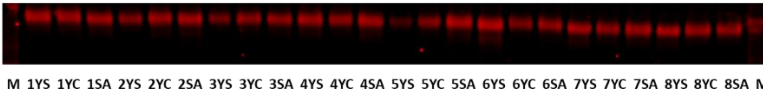
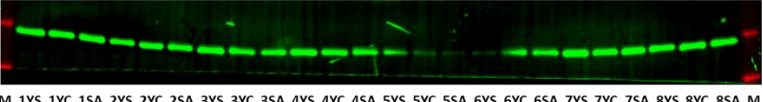
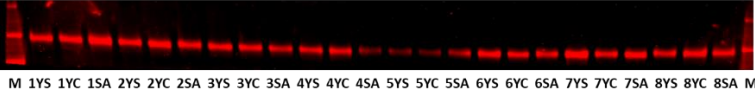
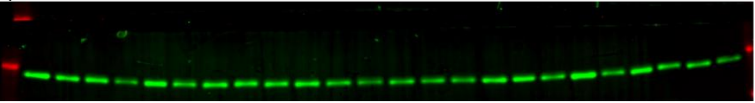
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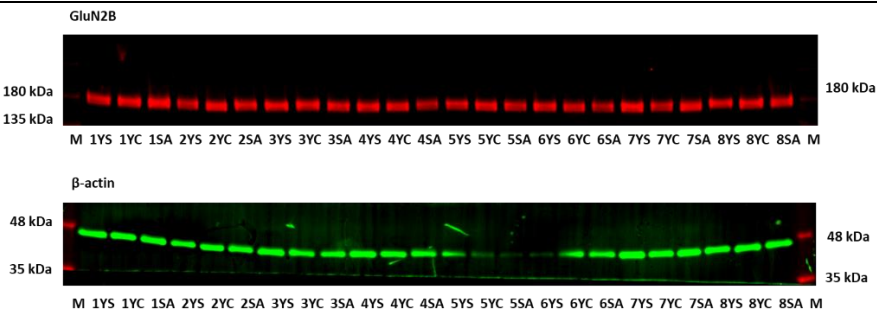
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Supporting Information Table 3. Corresponding membranes from Western blot analyses of NMDA receptor subunits and loading controls. YS- yoked saline, YC- yoked cocaine, SA- cocaine self-administration. Control protein ( $\beta$ -actin) for GluN1 and GluN2B was the same.

NMDA receptor subunits	Membranes
<b>Cocaine abstinence in an enriched environment</b>	
<b>GluN1</b>	<p><b>GluN1</b></p> <p>110 kDa</p> <p>M 1YS 1YC 1SA 2YS 2YC 2SA 3YS 3YC 3SA 4YS 4YC 4SA 5YS 5YC 5SA 6YS 6YC 6SA 7YS 7YC 7SA 8YS 8YC 8SA M</p> <p><math>\beta</math>-actin</p> <p>48 kDa</p> <p>35 kDa</p> <p>M 1YS 1YC 1SA 2YS 2YC 2SA 3YS 3YC 3SA 4YS 4YC 4SA 5YS 5YC 5SA 6YS 6YC 6SA 7YS 7YC 7SA 8YS 8YC 8SA M</p>
<b>GluN2A</b>	<p><b>GluN2A</b></p> <p>180 kDa</p> <p>135 kDa</p> <p>M 1YS 1YC 1SA 2YS 2YC 2SA 3YS 3YC 3SA 4YS 4YC 4SA 5YS 5YC 5SA 6YS 6YC 6SA 7YS 7YC 7SA 8YS 8YC 8SA M</p> <p><math>\beta</math>-actin</p> <p>48 kDa</p> <p>M 1YS 1YC 1SA 2YS 2YC 2SA 3YS 3YC 3SA 4YS 4YC 4SA 5YS 5YC 5SA 6YS 6YC 6SA 7YS 7YC 7SA 8YS 8YC 8SA M</p>
<b>GluN2B</b>	<p><b>GluN2B</b></p> <p>180 kDa</p> <p>135 kDa</p> <p>M 1YS 1YC 1SA 2YS 2YC 2SA 3YS 3YC 3SA 4YS 4YC 4SA 5YS 5YC 5SA 6YS 6YC 6SA 7YS 7YC 7SA 8YS 8YC 8SA M</p> <p><math>\beta</math>-actin</p> <p>48 kDa</p> <p>35 kDa</p> <p>M 1YS 1YC 1SA 2YS 2YC 2SA 3YS 3YC 3SA 4YS 4YC 4SA 5YS 5YC 5SA 6YS 6YC 6SA 7YS 7YC 7SA 8YS 8YC 8SA M</p>
<b>Cocaine abstinence in an isolated condition</b>	
<b>GluN1</b>	<p><b>GluN1</b></p> <p>110 kDa</p> <p>M 1YS 1YC 1SA 2YS 2YC 2SA 3YS 3YC 3SA 4YS 4YC 4SA M 5YS 5YC 5SA 6YS 6YC 6SA 7YS 7YC 7SA M</p> <p><math>\beta</math>-actin</p> <p>48 kDa</p> <p>M 1YS 1YC 1SA 2YS 2YC 2SA 3YS 3YC 3SA 4YS 4YC 4SA M 5YS 5YC 5SA 6YS 6YC 6SA 7YS 7YC 7SA M</p>

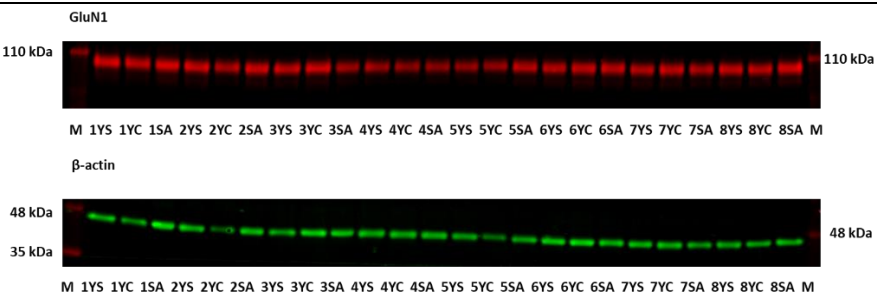
<b>GluN2A</b>	<p>GluN2A</p>  <p>245 kDa 180 kDa 135 kDa</p> <p>245 kDa 180 kDa</p> <p>M 1YS 1YC 1SA 2YS 2YC 2SA 3YS 3YC 3SA 4YS 4YC 4SA M 5YS 5YC 5SA 6YS 6YC 6SA 7YS 7YC 7SA M</p> <p>β-actin</p>  <p>48 kDa 35 kDa</p> <p>48 kDa</p> <p>M 1YS 1YC 1SA 2YS 2YC 2SA 3YS 3YC 3SA 4YS 4YC 4SA M 5YS 5YC 5SA 6YS 6YC 6SA 7YS 7YC 7SA M</p>
<b>GluN2B</b>	<p>GluN2B</p>  <p>180 kDa 135 kDa</p> <p>180 kDa</p> <p>M 1YS 1YC 1SA 2YS 2YC 2SA 3YS 3YC 3SA 4YS 4YC 4SA M 5YS 5YC 5SA 6YS 6YC 6SA 7YS 7YC 7SA M</p> <p>β-actin</p>  <p>48 kDa</p> <p>48 kDa</p> <p>M 1YS 1YC 1SA 2YS 2YC 2SA 3YS 3YC 3SA 4YS 4YC 4SA M 5YS 5YC 5SA 6YS 6YC 6SA 7YS 7YC 7SA M</p>
<b>Cocaine abstinence with extinction training</b>	
<b>GluN1</b>	<p>GluN1</p>  <p>110 kDa</p> <p>110 kDa</p> <p>M 1YS 1YC 1SA 2YS 2YC 2SA 3YS 3YC 3SA 4YS 4YC 4SA 5YS 5YC 5SA 6YS 6YC 6SA 7YS 7YC 7SA 8YS 8YC 8SA M</p> <p>β-actin</p>  <p>48 kDa 35 kDa</p> <p>48 kDa 35 kDa</p> <p>M 1YS 1YC 1SA 2YS 2YC 2SA 3YS 3YC 3SA 4YS 4YC 4SA 5YS 5YC 5SA 6YS 6YC 6SA 7YS 7YC 7SA 8YS 8YC 8SA M</p>
<b>GluN2A</b>	<p>GluN2A</p>  <p>245 kDa 180 kDa 135 kDa</p> <p>245 kDa 180 kDa</p> <p>M 1YS 1YC 1SA 2YS 2YC 2SA 3YS 3YC 3SA 4YS 4YC 4SA 5YS 5YC 5SA 6YS 6YC 6SA 7YS 7YC 7SA 8YS 8YC 8SA M</p> <p>β-actin</p>  <p>48 kDa 35 kDa</p> <p>48 kDa 35 kDa</p> <p>M 1YS 1YC 1SA 2YS 2YC 2SA 3YS 3YC 3SA 4YS 4YC 4SA 5YS 5YC 5SA 6YS 6YC 6SA 7YS 7YC 7SA 8YS 8YC 8SA M</p>

**GluN2B**

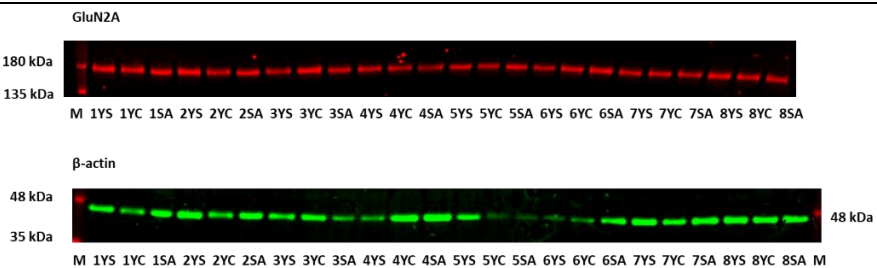


**Cocaine abstinence without instrumental task**

**GluN1**



**GluN2A**



**GluN2B**

