

**Rabbit Anti-D<sub>5</sub> Receptor Sera**

AS-3552S

Lot # 9077

The antiserum was raised in a rabbit which was immunized with D<sub>5</sub>(Ac-23-35-Cys<sup>36</sup>) covalently attached onto a carrier protein, and it has been characterized by immunocytochemical, western immunoblot and ELISA techniques. The antiserum has been found to be highly specific for this peptide sequence and is suitable for immunocytochemical and western blot detection of the D<sub>5</sub> dopamine receptor. Rehydrate the lyophilized antibody with 0.1 ml of PBS which contains 10 mg/ml BSA or with additional buffer (such as 10 mg/ml BSA in PBS) for more dilute antibody.

**Antiserum Specificity**

<b>Polypeptide</b>	<b>% Cross Reactivity</b>
D <sub>5</sub> Dopamine Receptor(Ac-23-35)	100
D <sub>5</sub> Dopamine Receptor	80
D <sub>1</sub> Dopamine Receptor(9-21)	0
D <sub>1</sub> Dopamine Receptor	0
D <sub>2</sub> Dopamine Receptor(272-282)	0
D <sub>2</sub> Dopamine Receptor	0
D <sub>3</sub> Dopamine Receptor(2-10)	0
D <sub>3</sub> Dopamine Receptor	0
D <sub>4</sub> Dopamine Receptor(176-185)	0
D <sub>4</sub> Dopamine Receptor	0

**Immunocytochemical Staining**

This antiserum has been found to stain specific cells in various regions of PLP fixed rat brain sections at a dilution of 1:2500. This includes cortex layer 5 and the parafascicular nucleus. For additional information on PLP fixative see the FAQ page on our web site at [www.RDAbs.com](http://www.RDAbs.com).

**Western Immunoblot**

Western immunoblots using whole rat brain homogenate resulted in a single band being detected at ~49 kD at 1:200 dilution.

**Western Blotting Protocol**

1. After SDS-PAGE on 12% gels and electrophoretic transfer to PVDF membrane, block the membrane overnight with 4% normal goat serum in TBS/Tween-20 buffer.
2. Wash x 2 with TBS/Tween-20.
3. Apply the rabbit polyclonal antibody after dilution to at least 1:200 (Note: higher dilutions may be needed). Use 2% normal goat serum in TBS/Tween-20 as buffer for the primary antibody. Let the primary antibody bind for 2-4 hours.
4. Wash x 3 with TBS/Tween-20.
5. Apply affinity purified HRP-goat anti-rabbit IgG antiserum diluted 1:2500 (dilution may vary depending upon supplier) in 2% normal goat serum in TBS/Tween-20. Incubate 1-2 hours. Note: greater sensitivity may be achieved using ABC techniques.
6. Wash x 4 for 5 minute/wash with TBS/Tween-20.
7. Develop color using the enhanced DAB reaction.