

Research & Diagnostic Antibodies

2645 W. Cheyenne Ave, N. Las Vegas, NV 89032

Phone: 702-638-7800

Western Immunoblotting Reagents: IgG Fraction of Rabbit Anti-D₄ Receptor Antiserum

WR-3545 Lot # 7966

The antiserum was raised in a rabbit which was immunized with D_4 (Ac-176-185) covalently attached onto a carrier protein, and it has been characterized by immunocytochemical, western immunoblot and ELISA techniques. The antiserum and the IgG fraction of the antiserum have been found to be highly specific for this peptide sequence and are suitable for the western blot detection of the D_4 dopamine receptor. Rehydrate the lyophilized IgG fraction with 5.0 ml of 10 mg/ml BSA in PBS. The stock solution should be further diluted 1:8 with additional buffer prior to use (see below). This should be sufficient for at least 20 lanes.

Antiserum Specificity

% Cross Reactivity
100
60
0
0
0
0
0
0
0
0

Western Blotting Protocol

- 1. After SDS-PAGE (on either 4-15% gradient gels or single percentage gels, such as 10% 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. For blocked antibody controls dissolve the 150 nmole of peptide PS-3545 in 600 μl of reconstituted antibody and incubate 60 min. Then add 5.4 ml of 1% normal goat serum in TBS/Tween-20. Using 2 ml per lane, this should be sufficient for 3 blocked control lanes. DO NOT ADD THE PEPTIDE TO THE STOCK POLYCLONAL ANTIBODY. THIS WILL BLOCK ALL BINDING.
- 4. Apply the rabbit polyclonal antibody after diluting the stock solution 1:8. Use 1% normal goat serum in TBS/Tween-20 as buffer for the primary antibody. Let the primary antibody bind for 2-4 hours.
- 5. Wash x 3 with TBS/Tween-20.
- 6. Apply affinity purified HRP-goat anti-rabbit IgG antiserum diluted 1:2500 (dilution may vary depending upon supplier) in 1% normal goat serum in TBS/Tween-20. Incubate 1-2 hours.
- 7. Wash x 4 for at least 5 min per wash cycle in TBS/Tween-20.
- 8. Develop color using the enhanced DAB reaction.



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PS-3545: Dopamine D₄ Receptor (Ac-176-185)

Amino Acid Sequence:

Ac-Asp-Val-Arg-Gly-Arg-Asp-Pro-Ala-Val-Cys-COOH

Mol. Wt.: 1129.2 Peptide Purity: > 95%

Peptide Quantity: 150 nmoles

Lot Number: 7068

HPLC Analysis: See Chart Recording

Solvent System: A. 0.05 M KH₂PO₄, pH 3.0

B. 70% Acetonitrile + 30% A

Solvent Program:	<u>Time</u>	<u>Flow</u>	<u>% A</u>	<u>%B</u>
	0	1.2	100	0
	40	1.2	0	100
	44	1.2	0	100
	46	1.2	100	0
	50	1.2	100	0

Detection: optical density at 225 nm Results: single peak at $R_t = 22.104$ min