

Research & Diagnostic Antibodies

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

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Western Immunoblotting Reagents: IgG Fraction of Rabbit Anti-M₅ Receptor Serum

WR-3781 Lot # 9184

The antiserum was raised in a rabbit which was immunized with a peptide analogue of the carboxyl terminal of the M_5 receptor covalently attached onto a carrier protein. The IgG fraction of the rabbit antiserum was prepared by precipitation, dialysis, and column chromatography. Rehydrate the lyophilized IgG fraction with 5.0 ml of 10 mgm/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. This antiserum has been found to stain specifically the M_5 receptor in western immunoblots of whole rat brain homogenates. The antiserum was tested for recognition of the other muscarinic receptor subtypes by ELISA and immunocytochemical techniques.

Antiserum Specificity

Polypeptide	% Cross Reactivity	
M ₅ Receptor (516-531)	100	
M ₅ Receptor	80	
M ₁ Receptor	0	
M ₂ Receptor	0	
M ₃ Receptor	0	
M ₄ Receptor	0	

Western Blotting Protocol

- 1. After SDS-PAGE (on either 4-15% gradient gels or single percentage gels, such as 7.5% gels) and electrophoretic transfer to PVDF membrane, block the membrane overnight with 4% normal goat serum in TBS/Tween-20 buffer as diluent.
- 2. Wash x 2 with TBS/Tween-20.
- 3. For blocked antibody controls dissolve 150 nmoles of peptide PS-3783 in 600 µl of reconstituted antibody. Incubate one hour. Then add 5.4 ml of 2% normal goat serum in TBS-Tween. 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 IgG after dilution to at least 1:8 (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 1 2 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 2% normal goat serum in TBS/Tween-20. Incubate 1 2 hours.
- 7. Wash x 4 for 5 min/cycle in TBS/Tween-20.
- 8. Develop color using the enhanced DAB reaction.



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PS-3783: Muscarinic Receptor M₅ (516-531)

Amino Acid Sequence:

NH₂-Lys-Lys-Val-Glu-Glu-Lys-Leu-Tyr-Trp-Gln-Gly-Asn-Ser-Lys-Leu-Pro-COOH

Mol. Wt.: 1947.3 Peptide Purity: 95%

Peptide Quantity: 150 nmoles

Peptide Lot #8251

HPLC Analysis: See Attached Chart Recording Solvent System: A. 0.05 M KH₂PO₄, pH 3.0 B. 70% AcCN + 30% A

Solvent Program:

<u>Time</u>	<u>Flow</u>	<u>%A</u>	<u>%B</u>
0	1.2	100	0
30	1.2	25	75
31	1.2	0	100
32	1.2	100	0
35	1.2	100	0

Detection: optical density at 225 nm Results: single peak at $R_t = 15.858$ min