

Research & Diagnostic Antibodies

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

Phone: 702-638-7800

Western Immunoblotting Reagents: IgG Fraction of Rabbit Anti-M₁ Receptor Serum

WR-3701 Lot # 10635

The antiserum was raised in a rabbit which was immunized with a peptide analogue of the carboxyl terminal of the M_1 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 TBS/Tween-20 that contains 1% normal goat serum(NGS). 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_1 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 ₁ Receptor (451-460)	100
M_1 Receptor	80
M ₂ Receptor	0
M ₃ Receptor	0
M ₄ Receptor	0
M ₅ 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 using 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-3701 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 polyclonal antibody 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 minutes per cycle in TBS/Tween-20.
- 8. Develop color using the enhanced DAB reaction.



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PS-3701: Muscarinic M₁ Receptor (Ac-451-460)

Amino Acid Sequence:

Ac-Ser-Val-His-Arg-Thr-Pro-Ser-Arg-Cys-Gln

Mol. Wt.: 1212.4

Peptide Quantity: 150 nmoles

Peptide Purity: > 95% Date: December 22, 1997

Lot Number: 9124

HPLC Analysis: See Attached Chart Recording

Solvent System: A. 0.05 M KH₂PO₄, pH 3.0

35

B. 70% AcCN + 30% A

Solvent Program: %B Time Flow %A 0 1.2 100 0 30 1.2 75 25 31 1.2 0 100 32 1.2 100 0

1.2

100

0

Detection: optical density at 225 nm Results: Single peak at $R_t = 9.350$ min