Anti-Muscarinic Acetylcholine Receptor M₂
produced in rabbit, affinity isolated antibody

Product Description
Anti-Muscarinic Acetylcholine Receptor M₂ is produced in rabbit using as immunogen a synthetic peptide conjugated to KLH. The peptide corresponds to the 3rd cytoplasmic loop of human muscarinic acetylcholine receptor M₂. The antibody is affinity purified using the immunizing peptide immobilized on agarose.

Anti-Muscarinic Acetylcholine Receptor M₂ specifically recognizes human muscarinic acetylcholine receptor M₂ by immunohistochemistry with formalin fixed paraffin embedded tissues. The immunizing peptide has 100% homology with mouse and rat gene. Other species reactivity has not been confirmed.

The M₂ receptor is expressed in various regions of the brain including the cerebellum, cerebral cortex, hippocampus, medulla, striatum, and thalamus, and in lung and prostate. M₂ receptors represent over 90% of the muscarinic receptors in heart.

One major role of M₂ receptors is to control neurotransmitter release. Muscarinic receptors may be important in changes associated with learning and memory. M₂ receptors mediate muscarinic LTP. Another functional area where both M₁ and M₂ receptors are implicated, but probably play different roles, is in cholinergic modulation of visual input.

Reagent
Supplied as a solution of 1 mg/mL in phosphate buffered saline, pH 7.7 containing 0.01% sodium azide as a preservative.

Storage/Stability
For continuous use, store at 2-8 °C for up to one month. For extended storage, freeze in working aliquots. Repeated freezing and thawing, or storage in "frost-free" freezers, is not recommended. If slight turbidity occurs upon prolonged storage, clarify the solution by centrifugation before use. Working dilution samples should be discarded if not used within 12 hours.

Product Profile
Immunohistochemistry: a recommended working concentration of ~2 µg/mL is determined using brain tissue, neurons.

Note: In order to obtain the best results in various techniques and preparations, we recommend determining optimal working concentration by titration.

References

This product is manufactured by MBL International Corporation

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