Product Information

Anti-D4 Dopamine Receptor
produced in rabbit, affinity isolated antibody

Catalog Number D6817

Product Description
Anti-D4 Dopamine Receptor is produced in rabbit using as immunogen a synthetic peptide conjugated to KLH. The peptide corresponds to the third cytoplasmic loop of human D4 Dopamine Receptor. The antibody is affinity-purified using the immunizing peptide immobilized on agarose.

Anti-D4 Dopamine Receptor specifically recognizes human D4 dopamine receptor by immunohistochemistry with formalin-fixed, paraffin-embedded tissues. The immunizing peptide has 79% homology with the rat and mouse genes. Other species reactivity has not been confirmed.

Dopamine receptors were initially divided into two general categories on the basis of differences in receptor pharmacology and biochemical mechanisms of signal transduction. With the application of the techniques of molecular biology, two predominant dopamine receptors, D1 and D2, were cloned. Later other dopamine receptors with homology to either the D1 or D2 receptor were identified. Thus, at present, two families of vertebrate dopamine receptors (designated as D1-like and D2-like) are recognized. The D1-like family consists of the D1 and D5 receptors while the D2-like family consists of the D2, D3 and D4 receptors.

D4 Dopamine Receptor expression has been reported in various regions of the brain as well as in adrenal gland, artery, eye, heart, kidney, placenta, spinal cord, testis, and vas deferens. ESTs have been isolated from a kidney library.

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

Precautions and Disclaimer
This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

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 minimum working concentration of 3 µg/ml is determined using human brain, neurons.

Note: In order to obtain best results and assay sensitivities of different techniques and preparations, we recommend determining optimal working dilutions by titration test.

References

This product manufactured by MBL International.

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