Product Information

Monoclonal Anti-D1 Dopamine Receptor
Clone 1-1-F11 S.E6
produced in rat, purified immunoglobulin

Catalog Number D187

Product Description
Monoclonal Anti-D1 Dopamine Receptor (rat IgG2a) is produced by immunizing rats with a 97 amino acid synthetic peptide corresponding to the C-terminus of the human D1 dopamine receptor.

This antibody is specific for human (DRD1 Gene ID 1812), monkey, and rat (Drd1a Gene ID 24316) D1 dopamine receptors. It can be used for immuno-histochemistry and immunoblotting.

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.

The D1 and D2 receptors occur in sufficiently high concentrations that they can be studied in situ. The D3, D4 and D5 receptors occur in such low concentrations that study of them in situ is difficult. Thus, the majority of study of these receptors has been accomplished using cell lines cloned to express these receptors.

Reagent
Supplied as a solution in 20 mM sodium phosphate, pH 7.2, containing 150 mM sodium chloride and 0.02% sodium azide.

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
Immunoblotting: recommended dilution 1:250
Immunohistochemistry: recommended dilution 1:500

References

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