Biotin-labeled Antibody to Dopamine Transporter (DAT-NT)  
RAT MONOCLONAL

**Catalog Number:** BT-N18  
**Quantity:** 100 micrograms  
**Format:** PBS (0.14 M Sodium Chloride; 0.003 M Potassium Chloride; 0.002 M Potassium Phosphate; 0.01 M Sodium Phosphate; pH 7.4), no preservative.  
**Host:** Rat  
**Clone:** hDAT-NT  
**Immunogen:** GST-DAT-NT fusion protein (the N-terminus, consisting of amino acids 1-66)

**Background:**  
The dopamine transporter (DAT) is a sodium-dependent reuptake carrier that is suspected to play a role in such neurologic and psychiatric disorders as Parkinson's disease, Tourette's disease, schizophrenia, and addiction. It is a12-transmembrane domain transporter with the N- and C-terminus regions located within the cytoplasm.

**Specificity and Preparation:**  
This antibody recognizes the N-terminus of the dopamine transporter (DAT-NT) in rat and human. It was produced in rat by immunization with a GST-DAT-NT fusion protein, then construction of a hybridoma with the murine nonsecreting myeloma cell line Sp2/0. The N-terminus, consisting of amino acids 1-66, was used to construct the fusion protein. It has been conjugated to biotin via an amide bond.

**Usage and Storage:**  
Applications include immunocytochemistry (culture supernatant 1:100, rat)\(^2\)\(^3\), immunohistochemistry (1:500, human)\(^1\), and immunoblotting (ammonium sulfate precipitated culture supernatant 1:500, rat)\(^3\). Store antibody at -20°C for one year. Avoid repeated freezing and thawing. Gently spin down material before use; 5-10 seconds in a microfuge should be adequate.

**References:**  

To view protocol(s) for this and other products please visit: www.ATSbio.com/protocols

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