Antibody to **Tyrosine Hydroxylase**

**Product Specifications**

**Description:**
*Tyrosine Hydroxylase* mouse monoclonal antibody

**Immunoglobulin class:** IgG2a, Kappa

**Clone:** 1B5

**Immunogen:** Recombinant protein representing a region at the carboxyl terminal end of the mouse tyrosine hydroxylase molecule.

**Epitope:** Not determined.

**Presentation:** Lyophilized tissue culture supernatant containing 15mM sodium azide. Reconstitute with 1ml of water.

**Species cross-reactivity:** Human, mouse and rat.

**Storage Conditions:**
Keep unopened vial at 2 - 8 °C for 1 year. Once opened it is recommended that reconstituted stock solution be aliquoted and quick frozen and stored at -20 °C. Do not repeatedly freeze/thaw.

**Applications:**

**Immunohistochemistry**
- Paraffin sections: Antigen unmasking recommended.
- Frozen sections: Not tested.
- Working Dilution*: 1:20 - 1:40 for 1 hr at 25°C
- Positive Control: Midbrain. Cytoplasmic staining pattern of dopaminergic cells.

**Western blotting:**
- Working Dilution*: 1:25 - 1:50
- Positive Control: Mouse brain.

* Recommended dilutions using VECTASTAIN® Elite® ABC Kits.

**Functional Aspects:**
Tyrosine hydroxylase (TH) is an enzyme that catalyzes the conversion of L-tyrosine to L-DOPA in catecholamine (CA) biosynthesis. This antibody will help detect TH and also be a useful marker of all CA neurons. This may be of interest in researching CA alteration during the ageing process of the brain such as senile dementia and in neurodegenerative conditions like Parkinson's disease.

**Selected References**