

## PRODUCT DATA SHEET

**Product Name:** ANTI-TYROSINE HYDROXYLASE ANTIBODY

**Product Code:** P60101-150

**Pack Size:** 150 µL

**Description:** Tyrosine hydroxylase (TH) is the rate-limiting enzyme in the synthesis of the catecholamines dopamine and norepinephrine. TH antibodies can therefore be used as markers for dopaminergic and noradrenergic neurons in a variety of applications including depression, schizophrenia, Parkinson's disease and drug abuse (Kish et al., 2001; Zhu et al., 2000; Zhu et al., 1999). TH antibodies can also be used to explore basic mechanisms of dopamine and norepinephrine signaling (Witkovsky et al., 2000; Salvatore et al., 2001; Dunkley et al., 2004).

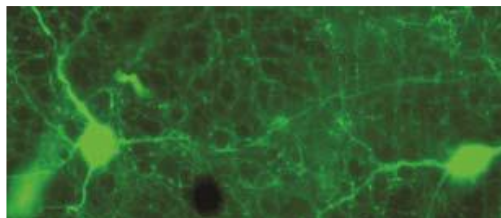
**Physical State:** Liquid; Buffer contents: 10 mM HEPES (pH 7.5), 150 mM NaCl, 100 µg per mL BSA and 50% glycerol

**Storage/Stability:** Stable at -20 °C for at least 1 year. For long term storage -20 °C is recommended

**Purification Method:** Prepared from sheep serum by affinity purification using a column to which immunogen was coupled. The antibody is predominantly of the IgG<sub>1</sub> subclass.

**Shipping Conditions:** Domestic: Blue Ice  
International: Blue Ice or Dry Ice

**Immunostaining**  
Rabbit retina showing specific labeling of tyrosine hydroxylase in green.



**Host Species:** Sheep (Polyclonal)

**Mr (kDa):** 60

**Immunogen:** Native rat tyrosine hydroxylase, purified from pheochromocytoma

**Species Reactivity:** All mammalian and at least some non-mammalian forms of the enzyme in Western blots and in IHC/IF.

**Recommended Antibody Dilutions:**

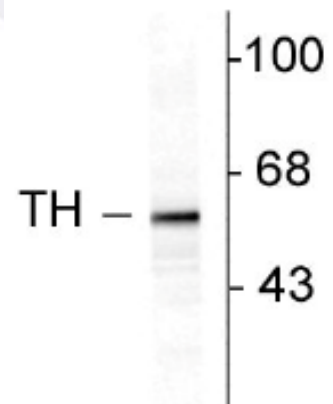
**WB, IF, IHC: 1:1000**

**References:**

- 1) Kish SJ et al. (2001) *Neuropsychopharmacology* 24:561-567.
- 2) Salvatore MF et al. (2001) *J Neurochem* 79:349-360.
- 3) Witkovsky P et al. (2000) *J Chem Neuroanat* 19:105-116.
- 4) Zhu MY et al. (2000) *J Neurosci Meth* 99:37-44.
- 5) Zhu MY et al. (1999) *Biol Psychiatry* 46:1275-1286.

**Western Blot**

10 ug of rat caudate lysate showing specific immunolabeling of the ~60k TH protein.



**Application Key:** WB – Western Blot IF – Immunofluorescence IHC – Immunohistochemistry IP - Immunoprecipitation  
**FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES.**

P/N: 74041 Rev 02