Anti-Tyrosine Hydroxylase

Catalog Number: 2025-THRAB  Size: 100 µl

Product Description: Affinity purified rabbit polyclonal antibody

Applications: WB: 1:1000
              IF (frozen sections; Xu et al., 1998): 1:1000
              IHC (frozen sections; Xu et al., 1998): 1:1000

Antigen: SDS-denatured rat tyrosine hydroxylase, purified from pheochromocytoma.

Species reactivity: The antibody recognizes all mammalian and at least some non-mammalian forms of the enzyme in Western blots and in IHC/IF.

Biological Significance: 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).

Purification Method: Prepared from rabbit serum by affinity purification using a protein A column and using a column to which the immunogen was coupled.
**Antibody Specificity:** Specific for the ~60k tyrosine hydroxylase protein.

**Quality Control Tests:** Western blots performed on each lot.

**Product Specific References:**

**General References:**