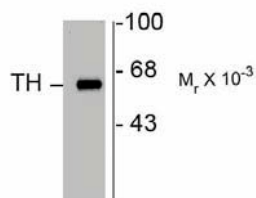


***Pel-Freez***<sup>®</sup>**Product Specifications****Anti-Tyrosine Hydroxylase****Size:** 150 µl**Product Description:** Affinity purified rabbit polyclonal antibody**Applications: WB:** 1:1000**IF** (frozen sections; Xu et al., 1998): 1:1000**IHC** (frozen sections; Xu et al., 1998): 1:1000**Antigen:** 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).**Anti-Tyrosine Hydroxylase**

**Western blot** of 10 µg of rat caudate lysate showing specific immunolabeling of the ~60k TH protein.

**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.

**References:**

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