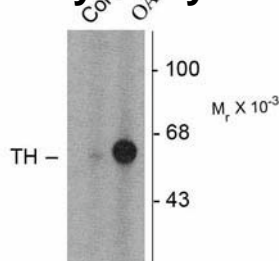


Pel-Freez®**Product Specifications****Anti-Phospho-Tyrosine Hydroxylase****Size:** 100 µl**Product Description:** Affinity purified rabbit polyclonal antibody**Applications: WB:** 1:1000**IF** (frozen sections; Witkovsky et al., 2000): 1:1000**IHC** (frozen sections; Witkovsky et al., 2000): 1:1000**Antigen:** Phosphopeptide corresponding to amino acid residues surrounding phospho- of rat tyrosine hydroxylase (TH).**Species reactivity:** The antibody has been directly tested for reactivity in Western blots in rat and mouse tissues. It is anticipated that the antibody will also work with non-human primate tissues based on the fact that this species has 100% homology with the amino acid sequence used as antigen.**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). The activity of TH is also regulated by phosphorylation (Haycock et al., 1982; Haycock et al., 1992; Jedynek et al., 2002). Phospho-specific antibodies for the phosphorylation sites on TH can be used to great effect in studying this regulation and in identifying the cells in which TH phosphorylation occurs.**Anti-Phospho Tyrosine Hydroxylase**

Western blot of PC-12 cells incubated in the absence (Control) and presence of okadaic acid (OA, 1 µM for 60 min) showing specific immunolabeling of the ~60k TH phosphorylated at .

Purification Method: Prepared from rabbit serum by affinity purification via sequential chromatography on phospho- and dephosphopeptide affinity columns.

Antibody Specificity: Specific for the ~60k tyrosine hydroxylase protein phosphorylated at .

Quality Control Tests: Western blots performed on each lot.

References:

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WB = Western Blot **IF** = Immunofluorescence **IHC** = Immunohistochemistry **IP** = Immunoprecipitation **Packaging:** 100 µl in 10 mM HEPES (pH 7.5), 150 mM NaCl, 100 µg per ml BSA and 50% glycerol. Adequate amount of material to conduct 10-mini Western Blots. **Storage and Stability.** For long term storage – is recommended. Stable at – for at least 1 year. **Shipment:** Domestic - Blue Ice; International – Blue Ice or Dry Ice.