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## **Anti-Human Tyrosine hydroxylase (TH) Polyclonal Antibody**

**CL8876AP**  
**CL8876AP-S**  
**Lot: 167621**

### **DESCRIPTION:**

Tyrosine hydroxylase (TH) or tyrosine 3-monooxygenase is a homotetrameric enzyme that plays an important role in the physiology of adrenergic neurons. It is responsible for catalyzing the conversion of L-tyrosine to L-DOPA, which is a precursor for the catecholamines dopamine, norepinephrine and epinephrine. TH is primarily found in the central nervous system (CNS), peripheral sympathetic neurons and the adrenal medulla and is a useful marker for dopaminergic and noradrenergic neurons<sup>1</sup>. Regulation of TH activity is primarily the result of phosphorylation at a number of serine residues along the protein structure<sup>2</sup>. Deficiency in the enzyme results in impaired synthesis of dopamine as well as epinephrine and norepinephrine and leads to progressive encephalopathy<sup>3</sup>.

### **PRESENTATION:**

100 µg (**CL8876AP**) or 20 µg (**CL8876AP-S**) purified IgG buffered in PBS and 0.02% NaN<sub>3</sub>. (Purified from serum via Affinity Chromatography). For maximum recovery of contents, spin down tube before use.

### **STORAGE/STABILITY:**

Store at + 4°C. For long term storage, aliquot and freeze unused portion at -20°C in volumes appropriate for single usage. Avoid freeze/thaw cycles.

### **SPECIFICATION:**

Immunogen: 12 amino acid synthetic peptide located within human TH.

Specificity: This antibody is specific for human TH; it's also specific for rat based on sequence identity.

IgG Class: Rabbit IgG

Application: This antibody is suitable for use in ELISA, Western Blot (0.01 – 0.001µg/mL) and Immunohistochemistry with paraffin embedded sections (4 µg/mL). This antibody has not been tested in other applications.

*Continued Overleaf.....*

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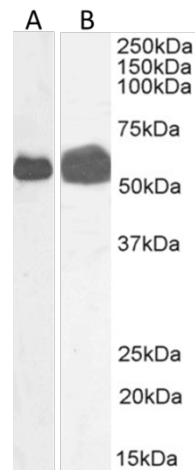
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## **TEST RESULTS:**

### **Western Blot:**



CL8876AP staining of human adrenal gland (0.001 $\mu$ g/ml) (A) and rat brain (0.01 $\mu$ g/ml) (B) lysates (35 $\mu$ g protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

**N.B.** Appropriate control samples should always be included in any labeling studies.

\* For optimal results in various applications, it is recommended that each investigator determine dilutions appropriate for individual use.

### **REFERENCES:**

1. Nagatsu T. (1995) **Tyrosine hydroxylase: human isoforms, structure and regulation in physiology and pathology.** *Essays Biochem.* 30:15-35.
2. Haycock JW. (1990) **Phosphorylation of tyrosine hydroxylase in situ at serine 8, 19, 31, and 40.** *J Biol Chem.* 265(20):11682-91.
3. Pearl PL, Taylor JL, Trzcinski S, Sokohl A (2007). **The pediatric neurotransmitter disorders.** *J Child Neurol.* 22(5):606-16.

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