

# **Phospho-Tyrosine Hydroxylase Antibody**

Rabbit Polyclonal Antibody Catalog # ABV10492

## **Specification**

# **Phospho-Tyrosine Hydroxylase Antibody - Product Information**

Application WB, IHC, IF
Primary Accession P07101
Other Accession AAI04968

Reactivity Human, Mouse, Rat

Host Rabbit
Clonality Polyclonal
Isotype Rabbit IgG
Calculated MW 58600

## Phospho-Tyrosine Hydroxylase Antibody - Additional Information

**Gene ID 7054** 

Application & Usage Western blotting (1:200-1000) and

immunofluorescence (1:50-100). However,

the optimal conditions should be

determined individually. Other applications have not been determined. The antibody detects a ~60 kDa Tyrosine Hydroxylase

when phosphorylated at Ser40.

delle ID 7034

Other Names
Tyrosin Hydroxylase

Target/Specificity

Phospho-Tyrosin Hydroxylase

**Antibody Form** 

Liquid

**Appearance** 

Colorless liquid

# **Formulation**

 $100~\mu l$  antigen affinity purified rabbit anti-phospho-Tyrosine Hydroxylase polyclonal antibody in phosphate buffered saline (PBS), pH 7.2, containing 50% glycerol, 1% BSA, 0.02% Thimerosal.

# **Handling**

The antibody solution should be gently mixed before use.

**Reconstitution & Storage** 

-20 °C

**Background Descriptions** 



#### **Precautions**

Phospho-Tyrosine Hydroxylase Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

# **Phospho-Tyrosine Hydroxylase Antibody - Protein Information**

Name TH (<u>HGNC:11782</u>)

**Synonyms TYH** 

#### **Function**

Catalyzes the conversion of L-tyrosine to L- dihydroxyphenylalanine (L-Dopa), the rate-limiting step in the biosynthesis of cathecolamines, dopamine, noradrenaline, and adrenaline. Uses tetrahydrobiopterin and molecular oxygen to convert tyrosine to L-Dopa (PubMed:<a href="http://www.uniprot.org/citations/17391063" target="\_blank">17391063</a>, PubMed:<a href="http://www.uniprot.org/citations/1680128" target="\_blank">1680128</a>, PubMed:<a href="http://www.uniprot.org/citations/15287903" target="\_blank">15287903</a>, PubMed:<a href="http://www.uniprot.org/citations/8528210" target="\_blank">8528210</a>, Ref.18, PubMed:<a href="http://www.uniprot.org/citations/34922205" target="\_blank">34922205</a>, PubMed:<a href="http://www.uniprot.org/citations/24753243" target="\_blank">24753243</a>, PubM

### **Cellular Location**

Cytoplasm, perinuclear region {ECO:0000250|UniProtKB:P24529}. Nucleus {ECO:0000250|UniProtKB:P04177} Cell projection, axon {ECO:0000250|UniProtKB:P24529}. Cytoplasm {ECO:0000250|UniProtKB:P04177}. Cytoplasmic vesicle, secretory vesicle, synaptic vesicle {ECO:0000250|UniProtKB:P04177}. Note=When phosphorylated at Ser-19 shows a nuclear distribution and when phosphorylated at Ser-31 as well at Ser-40 shows a cytosolic distribution (By similarity). Expressed in dopaminergic axons and axon terminals. {ECO:0000250|UniProtKB:P04177}

### **Tissue Location**

Mainly expressed in the brain and adrenal glands.

# **Phospho-Tyrosine Hydroxylase Antibody - Protocols**

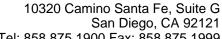
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

## Phospho-Tyrosine Hydroxylase Antibody - Images

## Phospho-Tyrosine Hydroxylase Antibody - Background

Tyrosine hydroxylase play an important role in the synthesis of dopamine and other





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catecholamines. The enzyme's activity is regulated in the level of transcription and translation, as well as posttranscriptional modifications. Phosphorylation at Ser40 may play a key role in regulation of the catalytic activity of the enzyme.