

**Anti-Tyrosine Hydroxylase TH Rabbit Monoclonal Antibody**  
Catalog # ABO14273**Specification****Anti-Tyrosine Hydroxylase TH Rabbit Monoclonal Antibody - Product Information**

Application	WB, IF, ICC, FC
Primary Accession	<a href="#">P07101</a>
Host	Rabbit
Isotype	Rabbit IgG
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Format	Liquid

**Description**

Anti-Tyrosine Hydroxylase TH Rabbit Monoclonal Antibody . Tested in WB, ICC/IF, Flow Cytometry applications. This antibody reacts with Human, Mouse, Rat.

**Anti-Tyrosine Hydroxylase TH Rabbit Monoclonal Antibody - Additional Information**

**Gene ID** 7054

**Other Names**

Tyrosine 3-monooxygenase, 1.14.16.2 {ECO:0000269|PubMed:15287903, ECO:0000269|PubMed:1680128, ECO:0000269|PubMed:17391063, ECO:0000269|PubMed:24753243, ECO:0000269|PubMed:34922205, ECO:0000269|PubMed:8528210, ECO:0000269|Ref.18}, Tyrosine 3-hydroxylase, TH, TH (<a href="http://www.genenames.org/cgi-bin/gene\_symbol\_report?hgnc\_id=11782" target="\_blank">HGNC:11782</a>), TYH

**Calculated MW**

58600 MW KDa

**Application Details**

WB 1:500-1:2000<br>ICC/IF 1:50-1:200<br>FC 1:50

**Tissue Specificity**

Mainly expressed in the brain and adrenal glands.

**Contents**

Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.

**Immunogen**

A synthesized peptide derived from human Tyrosine Hydroxylase

**Purification**

Affinity-chromatography

**Storage**

Store at -20°C long term. Avoid freeze / thaw cycle.

## Anti-Tyrosine Hydroxylase TH Rabbit Monoclonal Antibody - Protein Information

Name TH ([HGNC:11782](#))

Synonyms TYH

### Function

Catalyzes the conversion of L-tyrosine to L- dihydroxyphenylalanine (L-Dopa), the rate-limiting step in the biosynthesis of catecholamines, dopamine, noradrenaline, and adrenaline. Uses tetrahydrobiopterin and molecular oxygen to convert tyrosine to L-Dopa (PubMed:<a href="http://www.uniprot.org/citations/15287903" target="\_blank">15287903</a>, PubMed:<a href="http://www.uniprot.org/citations/1680128" target="\_blank">1680128</a>, PubMed:<a href="http://www.uniprot.org/citations/17391063" target="\_blank">17391063</a>, PubMed:<a href="http://www.uniprot.org/citations/24753243" target="\_blank">24753243</a>, PubMed:<a href="http://www.uniprot.org/citations/34922205" target="\_blank">34922205</a>, PubMed:<a href="http://www.uniprot.org/citations/8528210" target="\_blank">8528210</a>, Ref.18). In addition to tyrosine, is able to catalyze the hydroxylation of phenylalanine and tryptophan with lower specificity (By similarity). Positively regulates the regression of retinal hyaloid vessels during postnatal development (By similarity).

### 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

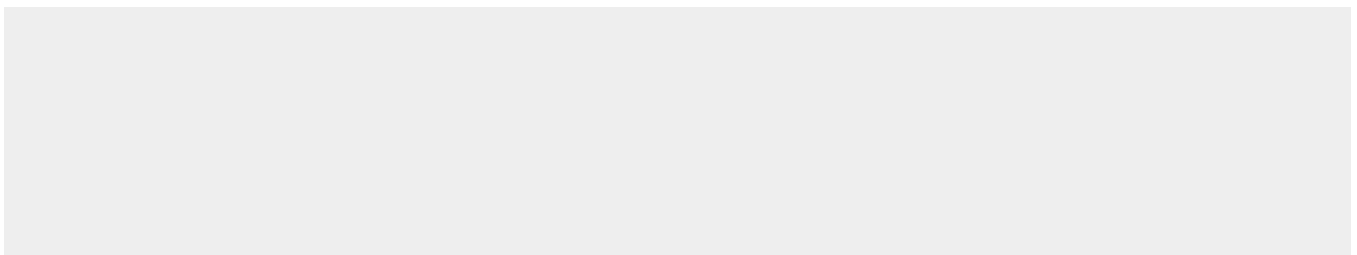
Mainly expressed in the brain and adrenal glands.

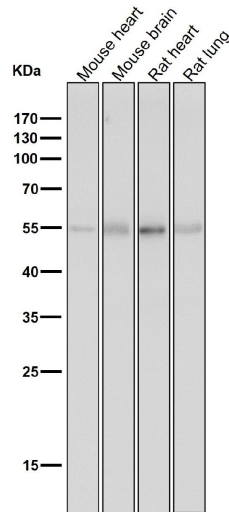
## Anti-Tyrosine Hydroxylase TH Rabbit Monoclonal Antibody - Protocols

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

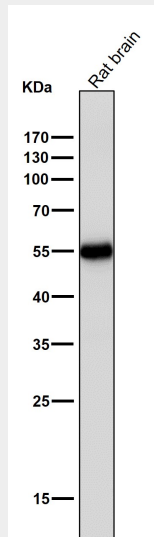
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## Anti-Tyrosine Hydroxylase TH Rabbit Monoclonal Antibody - Images

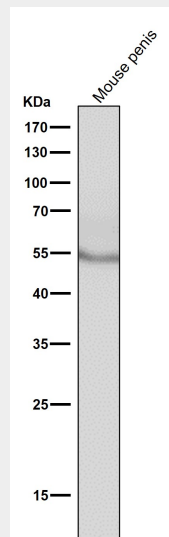




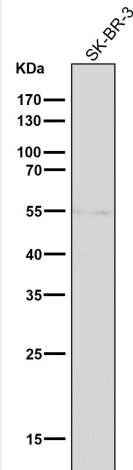
All lanes use the Antibody at 1:1K dilution for 1 hour at room temperature.



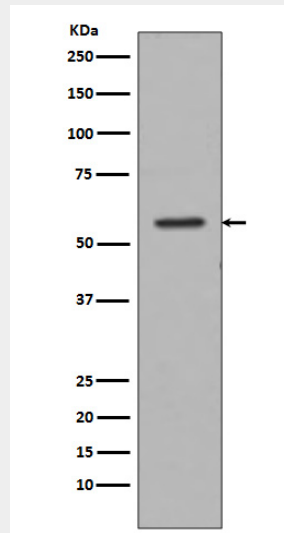
All lanes use the Antibody at 1:1K dilution for 1 hour at room temperature.



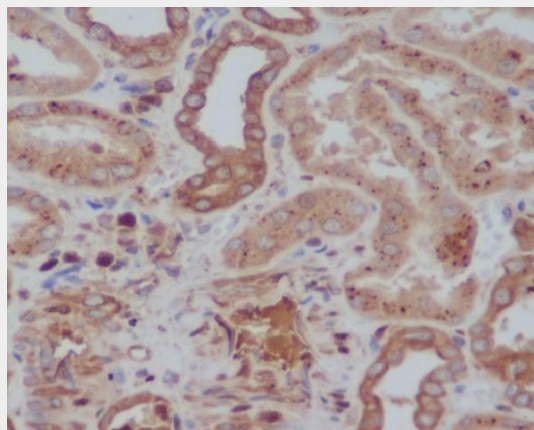
All lanes use the Antibody at 1:1K dilution for 1 hour at room temperature.



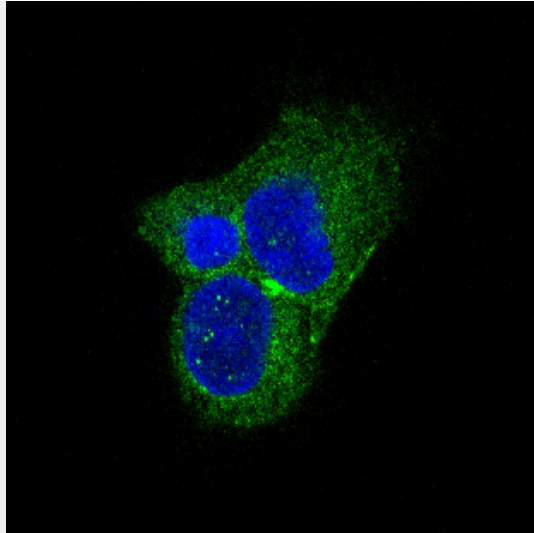
All lanes use the Antibody at 1:1K dilution for 1 hour at room temperature.



Western blot analysis of Tyrosine Hydroxylase expression in PC-3 cell lysate.



Immunohistochemical analysis of paraffin-embedded human kidney, using Tyrosine Hydroxylase Antibody.



Immunofluorescent analysis of PC-12 cells, using Tyrosine Hydroxylase Antibody.