

Anti-Tyrosine Hydroxylase TH Rabbit Monoclonal Antibody
Catalog # ABO14276**Specification****Anti-Tyrosine Hydroxylase TH Rabbit Monoclonal Antibody - Product Information**

Application	WB, IHC, IF, ICC, FC
Primary Accession	P07101
Host	Rabbit
Isotype	Rabbit IgG
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Format	Liquid

Description

Anti-Tyrosine Hydroxylase TH Rabbit Monoclonal Antibody . Tested in WB, IHC, 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 (http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=11782), TYH

Calculated MW

58600 MW KDa

Application Details

WB 1:1000-1:5000
IHC 1:50-1:200
ICC/IF 1:50-1:200
FC 1:200

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 for one year. For short term storage and frequent use, store at 4°C for

**up to one month. Avoid repeated
freeze-thaw cycles.**

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:15287903, PubMed:1680128, PubMed:17391063, PubMed:24753243, PubMed:34922205, PubMed:8528210, 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

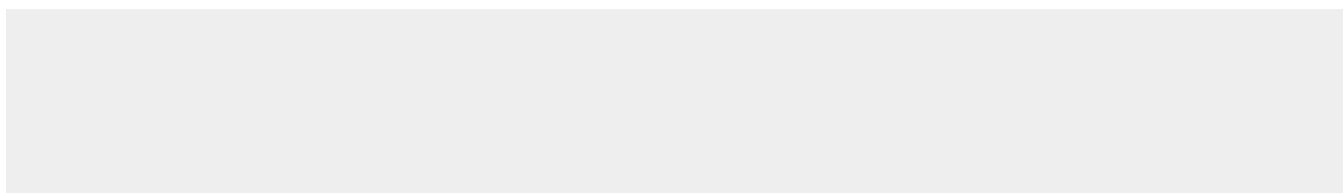
Mainly expressed in the brain and adrenal glands.

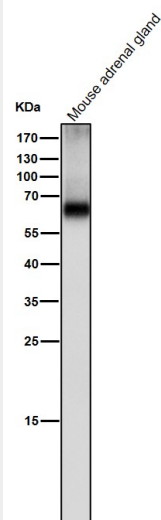
Anti-Tyrosine Hydroxylase TH Rabbit Monoclonal Antibody - Protocols

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

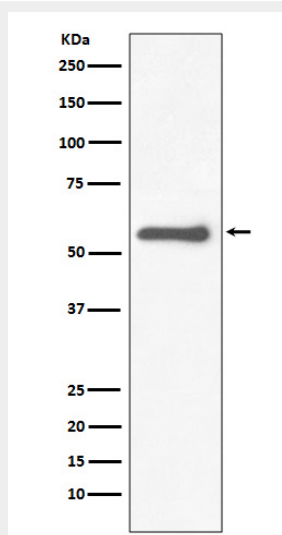
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-Tyrosine Hydroxylase TH Rabbit Monoclonal Antibody - Images

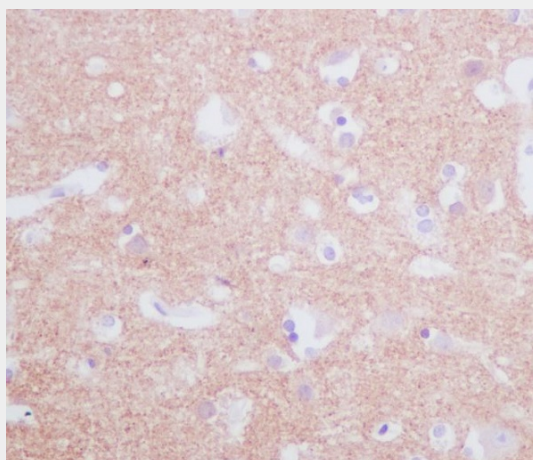




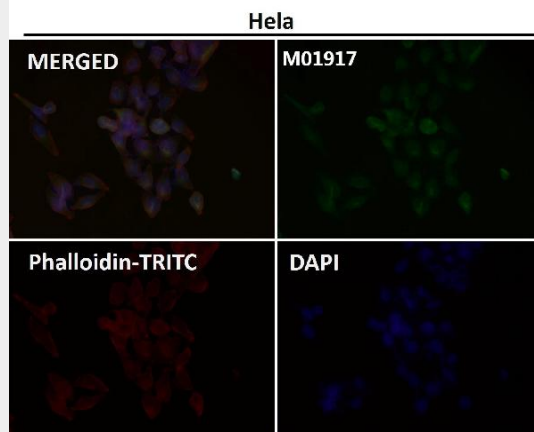
All lanes use the Antibody at 1:3K dilution for 1 hour at room temperature.



Western blot analysis of Tyrosine Hydroxylase expression in PC12 cell lysate.



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



Immunofluorescent analysis using the Antibody at 1:50 dilution.