10320 Camino Santa Fe, Suite G
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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 (HGNC: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 cathecolamines, 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 Cytomety
- Cell Culture

Anti-Tyrosine Hydroxylase TH Rabbit Monoclonal Antibody - Images

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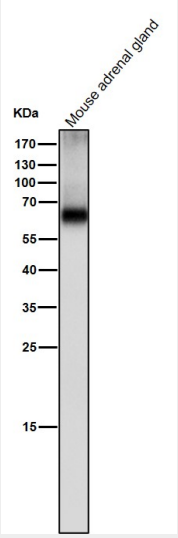
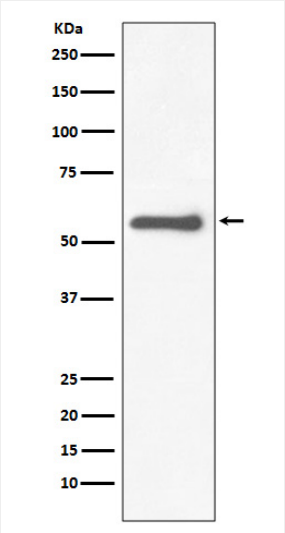
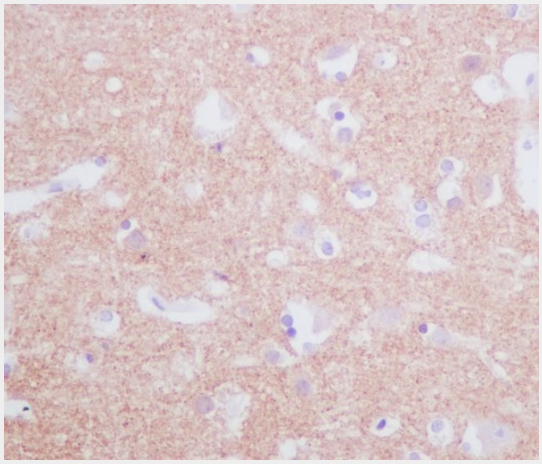


All lanes use the Antibody at 1:3K dilution for 1 hour at room temperature.



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



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

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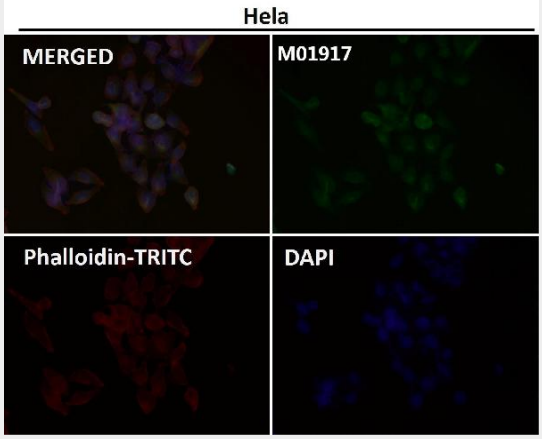

Immunofluorescent analysis using the Antibody at 1:50 dilution.