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Anti-Tyrosine Hydroxylase TH Rabbit Monoclonal Antibody

Catalog # ABO14273

Product Information

Application	WB, 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, ICC/IF, Flow Cytometry applications. This antibody reacts with Human, Mouse, Rat.

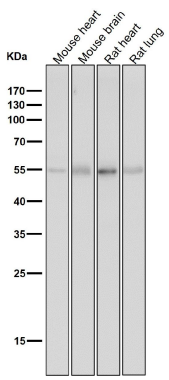
Additional Information

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
Application Details	WB 1:500-1:2000 ICC/IF 1:50-1:200 FC 1:50
Tissue Specificity	Mainly expressed in the brain and adrenal glands.
Source	Eukaryota
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.
Clone Names	Clone: ECA-20
Immunogen	A synthesized peptide derived from human Tyrosine Hydroxylase
Purification	Affinity-chromatography
Storage	Store at -20°C long term. Avoid freeze / thaw cycle.

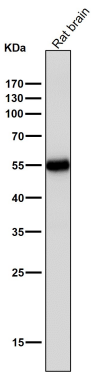
Protein Information

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.

Images

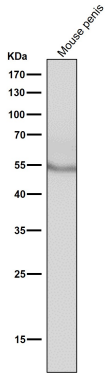


All lanes use the Antibody at 1:1K dilution for 1 hour at room temperature.

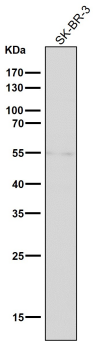


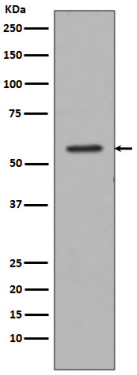
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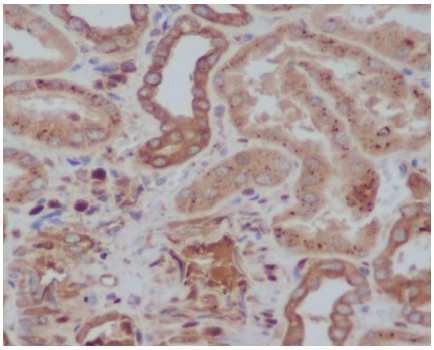


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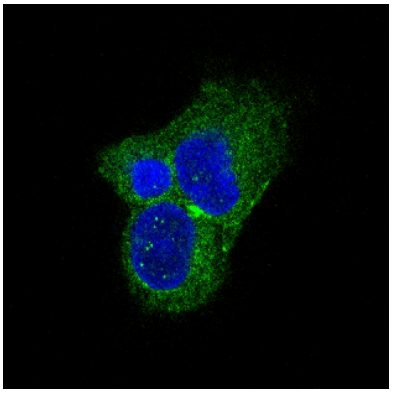


Western blot analysis of Tyrosine Hydroxylase expression in PC-3 cell lysate.



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

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



Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.