

# Tyrosine Hydroxylase Rabbit mAb

Catalog # AP76220

## Product Information

Application	WB, IHC-P, IHC-F, ICC
Primary Accession	<a href="#">P07101</a>
Reactivity	Rat
Host	Rabbit
Clonality	Monoclonal Antibody
Calculated MW	58600

## Additional Information

Gene ID	7054
Other Names	TH
Dilution	WB~~1/500-1/1000 IHC-P~~N/A IHC-F~~N/A ICC~~N/A
Format	Liquid

## Protein Information

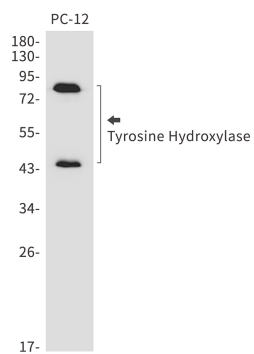
Name	TH ( <a href="#">HGNC:11782</a> )
Synonyms	TYH
Function	<p>Catalyzes the conversion of L-tyrosine to L- dihydroxyphenylalanine (L-Dopa), the rate-limiting step in the biosynthesis of catecholamines, dopamine, noradrenaline, and adrenaline. Uses tetrahydrobiopterin and molecular oxygen to convert tyrosine to L-Dopa (PubMed:<a href="#">15287903</a>, PubMed:<a href="#">1680128</a>, PubMed:<a href="#">17391063</a>, PubMed:<a href="#">24753243</a>, PubMed:<a href="#">34922205</a>, PubMed:<a href="#">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).</p>
Cellular Location	<p>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}</p>

## Tissue Location

Mainly expressed in the brain and adrenal glands.

## Images

---



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