

TH / Tyrosine Hydroxylase Antibody (aa41-90)
Rabbit Polyclonal Antibody
Catalog # ALS14014**Specification**

TH / Tyrosine Hydroxylase Antibody (aa41-90) - Product Information

Application	IF
Primary Accession	P07101
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	59kDa KDa

TH / Tyrosine Hydroxylase Antibody (aa41-90) - Additional Information**Gene ID** 7054**Other Names**

Tyrosine 3-monooxygenase, 1.14.16.2, Tyrosine 3-hydroxylase, TH, TH, TYH

Target/Specificity

Tyrosine Hydroxylase (Ab-40) Antibody detects endogenous levels of total Tyrosine Hydroxylase protein.

Reconstitution & Storage

Store at -20°C for up to one year.

Precautions

TH / Tyrosine Hydroxylase Antibody (aa41-90) is for research use only and not for use in diagnostic or therapeutic procedures.

TH / Tyrosine Hydroxylase Antibody (aa41-90) - 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:17391063, PubMed:1680128, PubMed:15287903, PubMed:8528210, Ref.18, PubMed:34922205, PubMed:24753243).

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.

TH / Tyrosine Hydroxylase Antibody (aa41-90) - 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](#)

TH / Tyrosine Hydroxylase Antibody (aa41-90) - Images



Immunofluorescence of HUVEC cells, using Tyrosine Hydroxylase (Ab-40) Antibody.

TH / Tyrosine Hydroxylase Antibody (aa41-90) - Background

Plays an important role in the physiology of adrenergic neurons.

TH / Tyrosine Hydroxylase Antibody (aa41-90) - References

Kaneda N.,et al.Biochem. Biophys. Res. Commun. 146:971-975(1987).
Grima B.,et al.Nature 326:707-711(1987).
Kobayashi K.,et al.Nucleic Acids Res. 15:6733-6733(1987).
Kobayashi K.,et al.J. Biochem. 103:907-912(1988).
Roma J.,et al.Biol. Chem. 388:419-426(2007).