

Tyrosine Hydroxylase Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP57759

Specification

Tyrosine Hydroxylase Polyclonal Antibody - Product Information

Application Primary Accession Reactivity Host Clonality Calculated MW IHC-P P24529 Rat Rabbit Polyclonal 55993

Tyrosine Hydroxylase Polyclonal Antibody - Additional Information

Gene ID 21823

Other Names Tyrosine 3-monooxygenase, 1.14.16.2, Tyrosine 3-hydroxylase, TH, Th

Format 0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glyce

Storage

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Tyrosine Hydroxylase Polyclonal Antibody - Protein Information

Name Th

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 (By similarity). 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 (PubMed:http://www.uniprot.org/citations/30936473"

Cellular Location

Cytoplasm, perinuclear region. Nucleus {ECO:0000250|UniProtKB:P04177} Cell projection, axon. 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 as at Ser-40 shows a cytosolic distribution (By similarity). Expressed in dopaminergic axons and axon terminals (PubMed:17296554). {ECO:0000250|UniProtKB:P04177, ECO:0000269|PubMed:17296554}



Tissue Location

Expressed in the adrenal gland (PubMed:1674869). Expressed in the retina (PubMed:30936473). Expressed in the in the striatum (at protein level) (PubMed:17296554)

Tyrosine Hydroxylase Polyclonal Antibody - Protocols

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

- <u>Western Blot</u>
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Tyrosine Hydroxylase Polyclonal Antibody - Images



Paraformaldehyde-fixed, paraffin embedded (Rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Tyrosine Hydroxylase) Polyclonal Antibody, Unconjugated (bs-20080R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with



(Tyrosine Hydroxylase) Polyclonal Antibody, Unconjugated (bs-20080R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.