

# Tyrosine Hydroxylase Rabbit mAb

Catalog # AP77522

## Product Information

|                          |   |
|--------------------------|---|
| <b>Application</b>       | WB, IHC-P, IF, FC, ICC  |
| <b>Primary Accession</b> | <a href="#">P07101</a>  |
| <b>Reactivity</b>        | Rat, Human, Mouse   |
| <b>Host</b>              | Rabbit  |
| <b>Clonality</b>         | Monoclonal Antibody   |
| <b>Isotype</b>           | IgG   |
| <b>Conjugate</b>         | Unconjugated  |
| <b>Immunogen</b>         | A synthesized peptide derived from human Tyrosine Hydroxylase |
| <b>Purification</b>      | Affinity Chromatography                                       |
| <b>Calculated MW</b>     | 58600   |

## Additional Information

|                    |  |
|--------------------|--|
| <b>Gene ID</b>     | 7054   |
| <b>Other Names</b> | TH   |
| <b>Dilution</b>    | WB~~1/500-1/1000 IHC-P~~N/A IF~~1:50~200 FC~~1:10~50 ICC~~N/A                                      |
| <b>Format</b>      | Liquid in 10mM PBS, pH 7.4, 150mM sodium chloride, 0.05% BSA, 0.02% sodium azide and 50% glycerol. |
| <b>Storage</b>     | Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.           |

## Protein Information

|                          |  |
|--------------------------|--|
| <b>Name</b>              | TH ( <a href="#">HGNC:11782</a> )  |
| <b>Synonyms</b>          | TYH  |
| <b>Function</b>          | 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). |
| <b>Cellular Location</b> | Cytoplasm, perinuclear region {ECO:0000250 UniProtKB:P24529}. Nucleus {ECO:0000250 UniProtKB:P04177} Cell projection, axon   |

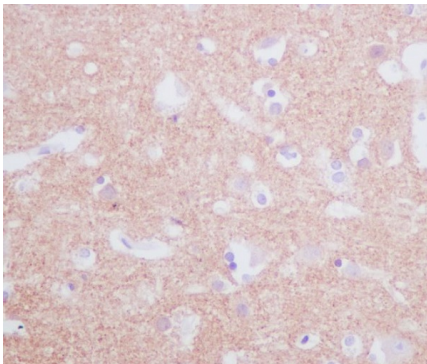
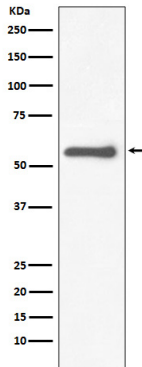
{ECO:0000250|UniProtKB:P24529}. Cytoplasm  
{ECO:0000250|UniProtKB:P04177}. Cytoplasmic vesicle, secretory vesicle,  
synaptic vesicle {ECO:0000250|UniProtKB:P04177}. Note=When  
phosphorylated at Ser-19 shows a nuclear distribution and when  
phosphorylated at Ser-31 as well at Ser-40 shows a cytosolic 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

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