

Product datasheet for **AP22626PU-N**

Tyrosine Hydroxylase (TH) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	Immunofluorescence: 1/1000. Immunohistochemistry on Frozen Sections. Immunohistochemistry on Paraffin Sections: 1/100. Western Blot: 1/1000.
Reactivity:	Mammalian, Rat, Human
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	TH antibody was raised against sDS-denatured rat tyrosine hydroxylase, purified from pheochromocytoma
Specificity:	This antibody reacts to Tyrosine Hydroxylase (TH).
Formulation:	50 µL of 10 mM HEPES, pH 7.5 containing 150 mM sodium chloride, 0.1 mg/mL BSA, 50% glycerol. State: Purified State: Liquid purified Ig fraction
Purification:	Immunoaffinity Chromatography
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	tyrosine hydroxylase
Database Link:	Entrez Gene 25085 Rat Entrez Gene 7054 Human P07101



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Background:

Tyrosine hydroxylase is involved in the conversion of phenylalanine to dopamine. It is the rate-limiting enzyme in the synthesis of catecholamines and as such has a key role in the physiology of adrenergic neurons. TH is encoded by four distinct mRNAs produced by alternative splicing of a single primary transcript. Expression of the mRNAs varies in different parts of the nervous system. Defects in TH are the cause of autosomal recessive Segawa syndrome.

Synonyms:

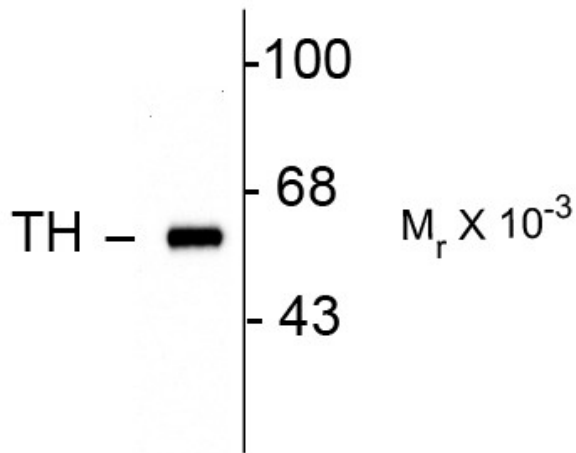
Tyrosine 3-hydroxylase, TYH

Protein Families:

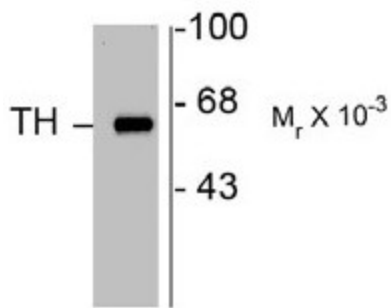
Druggable Genome

Protein Pathways:

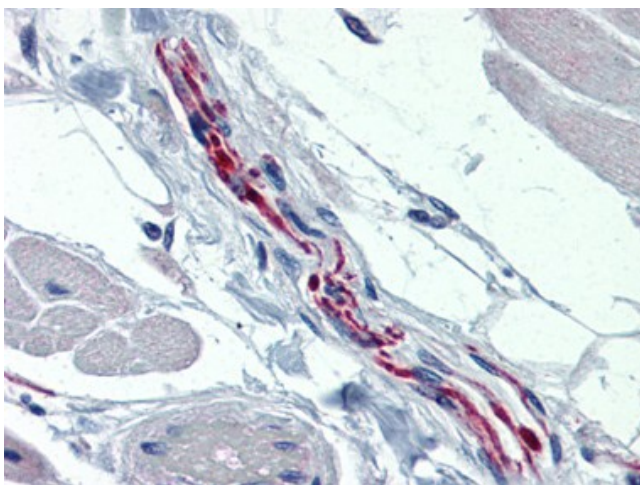
Metabolic pathways, Parkinson's disease, Tyrosine metabolism

Product images:


Western blot of rat caudate lysate should show specific immunolabeling of the ~60k Tyrosine Hydroxylase protein.



Western blot of 10 ug of rat caudate lysate showing specific immunolabeling of the ~60k TH protein.



Human Heart, Nerve (formalin-fixed, paraffin-embedded) stained with TH antibody AP22626PU-N at 1/100 followed by biotinylated goat anti-rabbit IgG secondary antibody, alkaline phosphatase-streptavidin and chromogen.