



Rabbit Anti-Tyrosine Hydroxylase antibody

SL20079R

Product Name:	Tyrosine Hydroxylase
Chinese Name:	Tyrosine Hydroxylase
Alias:	Tyrosine Hydroxylase; DYT14; DYT5b; ple; Protein Pale; c; The; TYH; Tyrosine 3 hydroxylase; Tyrosine 3 monooxygenase; Tyk2; TY3H_HUMAN; Tyrosine 3-monooxygenase; Tyrosine 3-hydroxylase; TH.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	60kDa
Cellular localization:	The nucleuscytoplasmicThe cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human Tyrosine Hydroxylase:2-100/528
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. 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.
PubMed:	PubMed
Product Detail:	The protein encoded by this gene is involved in the conversion of tyrosine to dopamine. It is the rate-limiting enzyme in the synthesis of catecholamines, hence plays a key role in the physiology of adrenergic neurons. Mutations in this gene have been associated with autosomal recessive Segawa syndrome. Alternatively spliced transcript variants

encoding different isoforms have been noted for this gene. [provided by RefSeq, Jul 2008]

Function:

Plays an important role in the physiology of adrenergic neurons.

Tissue Specificity:

Mainly expressed in the brain and adrenal glands.

DISEASE:

Defects in TH are the cause of Segawa syndrome autosomal recessive (ARSEGS) [MIM:605407]. A form of DOPA-responsive dystonia presenting in infancy or early childhood. Dystonia is defined by the presence of sustained involuntary muscle contractions, often leading to abnormal postures. Some cases present with parkinsonian symptoms in infancy. Unlike all other forms of dystonia, it is an eminently treatable condition, due to a favorable response to L-DOPA.

Note=May play a role in the pathogenesis of Parkinson disease (PD). A genome-wide copy number variation analysis has identified a 34 kilobase deletion over the TH gene in a PD patient but not in any controls.

Similarity:

Belongs to the bipterin-dependent aromatic amino acid hydroxylase family.

SWISS:

P07101

Gene ID:

7054

Database links:

[Entrez Gene: 7054](#) Human

[Entrez Gene: 21823](#) Mouse

[Entrez Gene: 25085](#) Rat

[Omim: 191290](#) Human

[SwissProt: P07101](#) Human

[SwissProt: P24529](#) Mouse

[SwissProt: P04177](#) Rat

[Unigene: 435609](#) Human

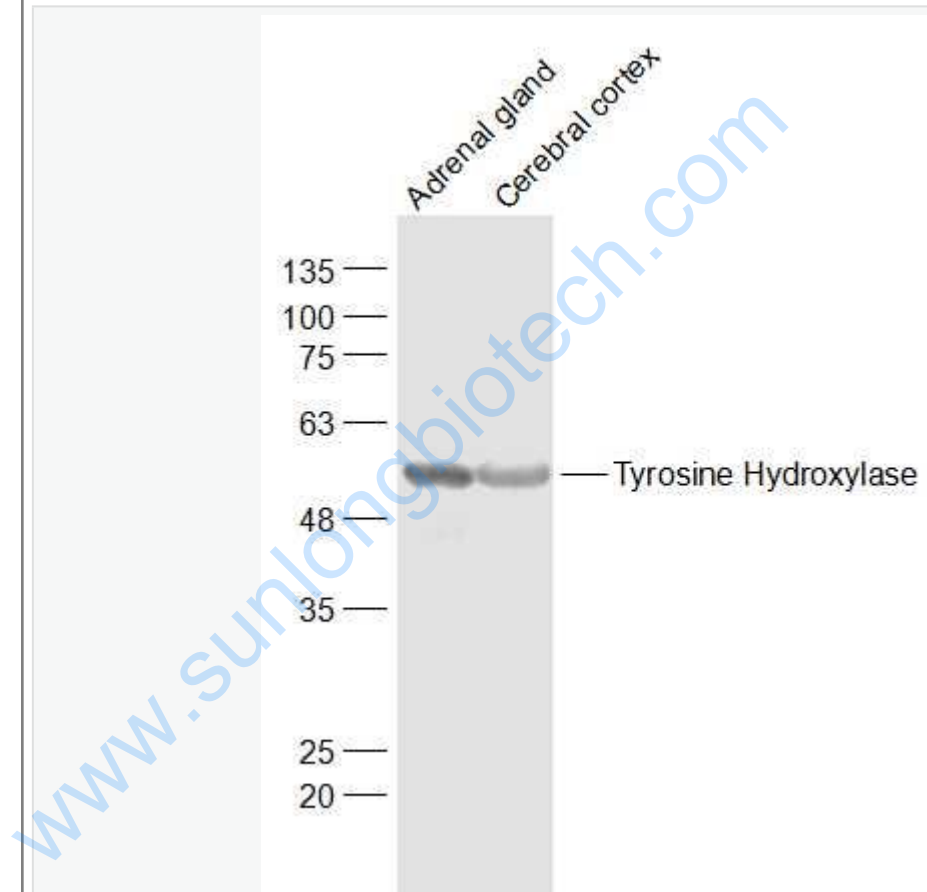
[Unigene: 1292](#) Mouse

[Unigene: 11082](#) Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Picture:



Sample:

Adrenal gland(Rat) Lysate at 40 ug

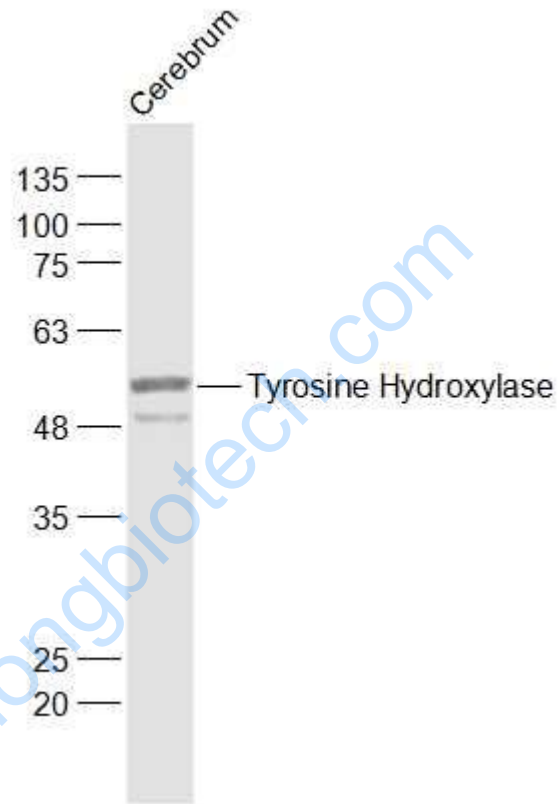
Cerebral cortex (Rat) Lysate at 40 ug

Primary: Anti-Tyrosine Hydroxylase (SL20079R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 60 kD

Observed band size: 56 kD



Sample:

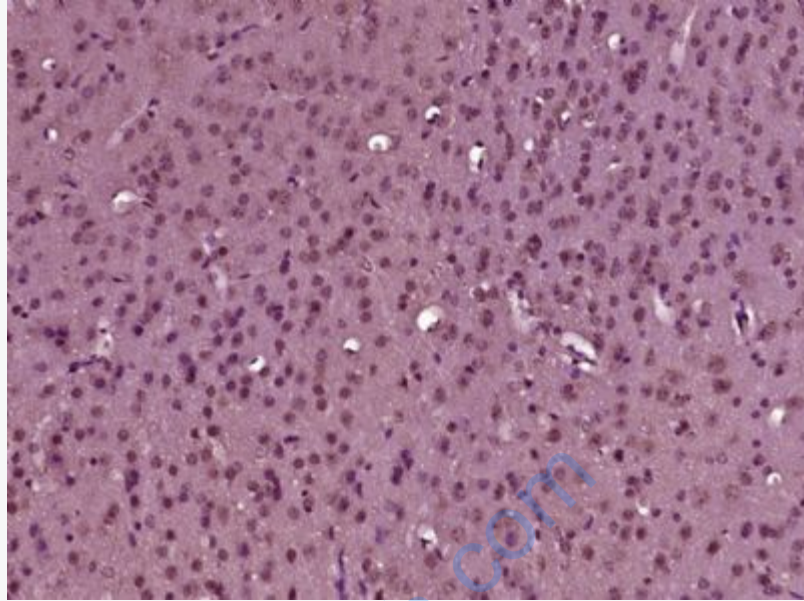
Cerebrum (Mouse) Lysate at 40 ug

Primary: Anti-Tyrosine Hydroxylase (SL20079R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 60 kD

Observed band size: 56 kD



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 (SL20079R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.