



Rabbit Anti-Phospho-TH (Ser31) antibody

SL3463R

| | |
|-------------------------------|---|
| Product Name: | Phospho-TH (Ser31) |
| Chinese Name: | 磷酸化酪氨酸羟化酶抗体 |
| Alias: | Tyrosine Hydroxylase (Phospho-Ser31); Dystonia 14; DYT14; DYT5b; EC 1.14.16.2; OTTHUMP00000011225; OTTHUMP00000011226; ple; Protein Pale; TH; The; TY3H_RAT; TYH; Tyrosine 3 hydroxylase; Tyrosine 3 monooxygenase; Tyrosine 3-hydroxylase; Tyrosine 3-monooxygenase. |
| Organism Species: | Rabbit |
| Clonality: | Polyclonal |
| React Species: | Mouse,Rat, |
| Applications: | WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=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: | 56kDa |
| Cellular localization: | The nucleuscytoplasmicThe cell membrane |
| Form: | Lyophilized or Liquid |
| Concentration: | 1mg/ml |
| immunogen: | KLH conjugated synthesised phosphopeptide derived from rat TH around the phosphorylation site of Ser31:VT(p-S)PR |
| 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: | Tyrosine hydroxylase is involved in the conversion of tyrosine to dopamine. As the rate-limiting enzyme in the synthesis of catecholamines, tyrosine hydroxylase has a key role |

in the physiology of adrenergic neurons. Tyrosine hydroxylase is regularly used as a marker for dopaminergic neurons, which is particularly relevant for research into Parkinson's disease.

Function:

Plays an important role in the physiology of adrenergic neurons.

Subunit:

Homotetramer.

Subcellular Location:

Mainly expressed in the brain and adrenal glands.

Post-translational modifications:

In vitro, phosphorylation of Ser-19 increases the rate of Ser-40 phosphorylation, which results in enzyme opening and activation.

Similarity:

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

SWISS:

P04177

Gene ID:

25085

Database links:

[Entrez Gene: 7054](#)Human

[Entrez Gene: 21823](#)Mouse

[Entrez Gene: 25085](#)Rat

[Omm: 191290](#)Human

[SwissProt: P07101](#)Human

[SwissProt: P24529](#)Mouse

[SwissProt: P04177](#)Rat

[Unigene: 435609](#)Human

[Unigene: 1292](#)Mouse

[Unigene: 11082](#)Rat

Important Note:

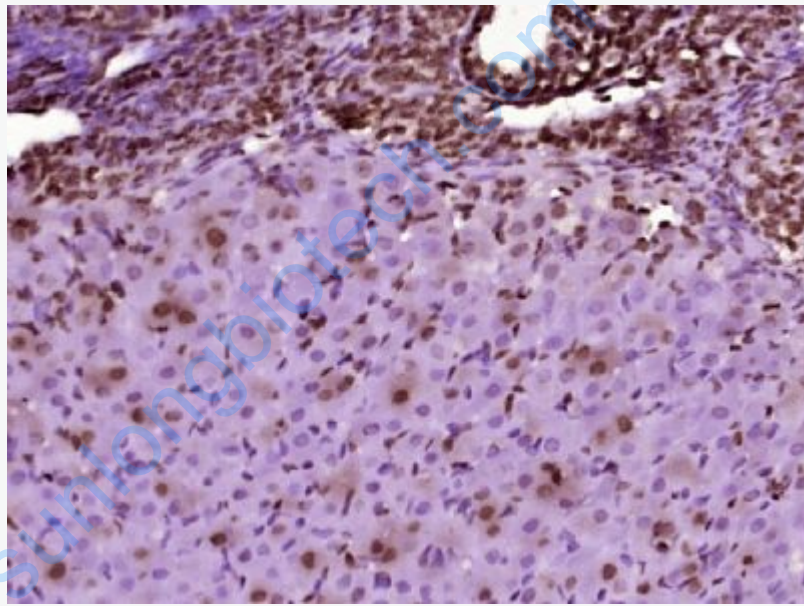
This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

神经细胞Maker

酪氨酸羟化酶(TH)是儿茶酚胺类神经递质即多巴胺、去甲肾上腺素、肾上腺素生物合成过程所需的限速酶,它以四氢生物喋呤(BH4)为辅酶,催化酪氨酸的羟化而生成多巴(DOPA)。

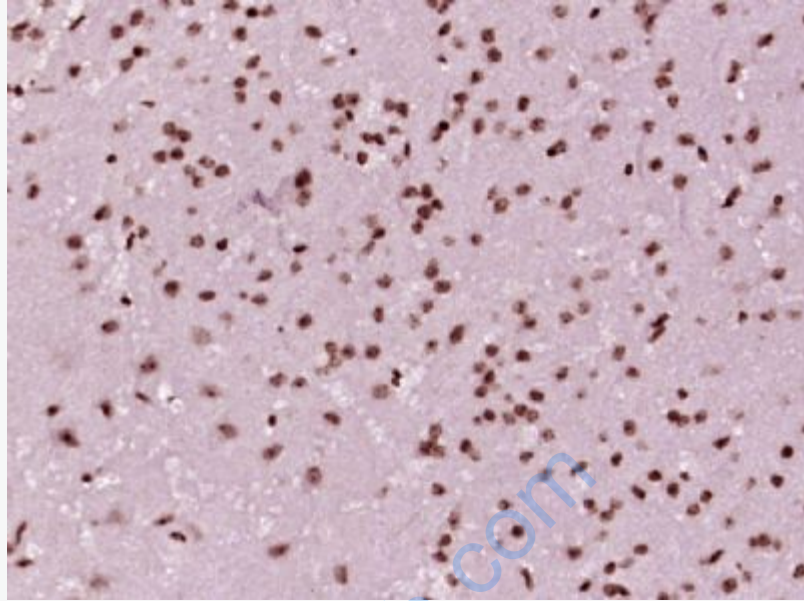
已知在患帕金森病(Parkinson disease,PD)时,脑内多巴胺(dopamine,DA)的减少与此酶活性低下有关。因此对PD模型动物来说,若将TH基因植入脑内,便可以提高脑内DA水平而达到基因治疗目的。

。

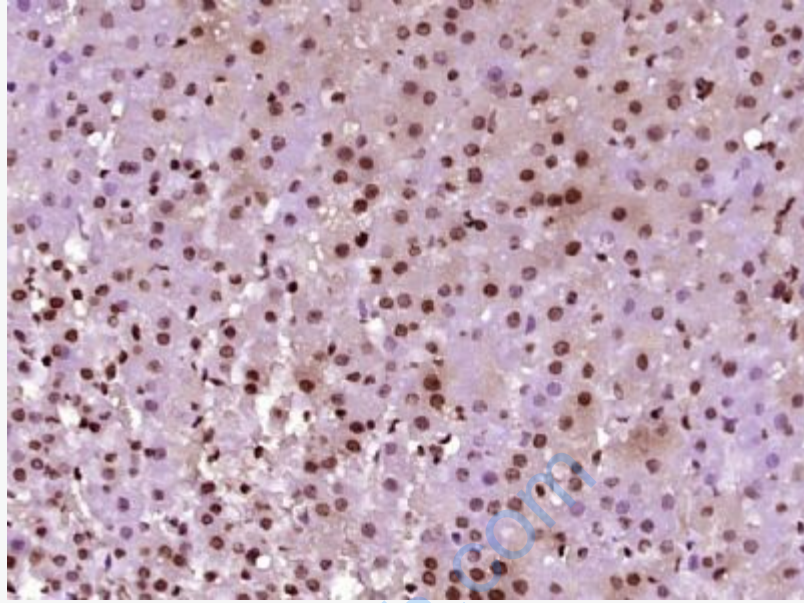


Picture:

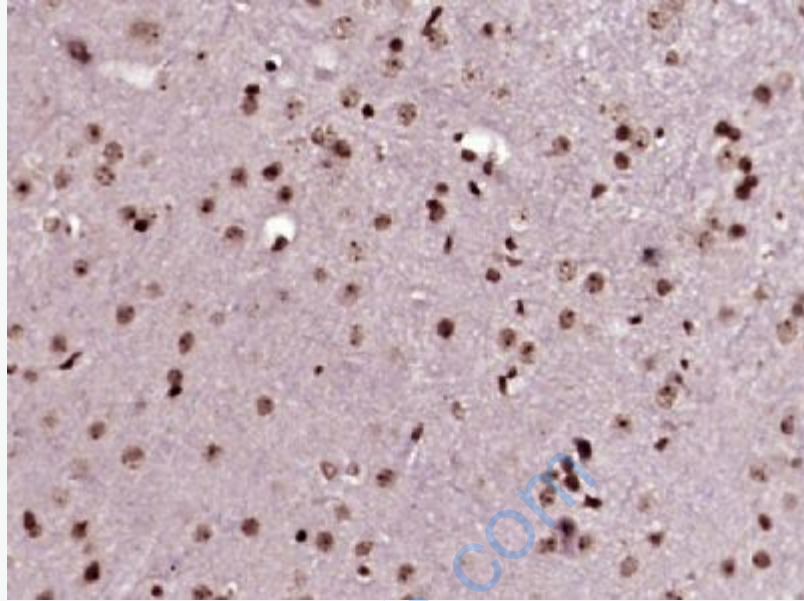
Paraformaldehyde-fixed, paraffin embedded (Mouse adrenal gland); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Phospho-TH (Ser31)) Polyclonal Antibody, Unconjugated (SL3463R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and 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 (Phospho-TH (Ser31)) Polyclonal Antibody, Unconjugated (SL3463R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (Rat adrenal gland); 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 (Phospho-TH (Ser31)) Polyclonal Antibody, Unconjugated (SL3463R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



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 (Phospho-TH (Ser31)) Polyclonal Antibody, Unconjugated (SL3463R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.