

# Tyrosine Hydroxylase Rabbit mAb

Catalog No.: A25683 **Recombinant**

## Basic Information

### Observed MW

62-64kDa

### Calculated MW

59kDa

### Category

Primary antibody

### Applications

WB,IHC-P,IF/ICC,(ELISA)

### Cross-Reactivity

Human, Mouse, Rat

### CloneNo number

ARC67477

## Background

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.

## Recommended Dilutions

**WB** 1:500 - 1:1000

**IHC-P** 1:3000-1:5000

**IF/ICC** 1:50 - 1:200

**ELISA** Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

## Immunogen Information

### Gene ID

7054

### Swiss Prot

P07101

### Immunogen

Recombinant fusion protein containing a sequence corresponding to amino acids 411-528 of human Tyrosine Hydroxylase (NP\_954986.2).

### Synonyms

TYH; DYT14; DYT5b

## Contact

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## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

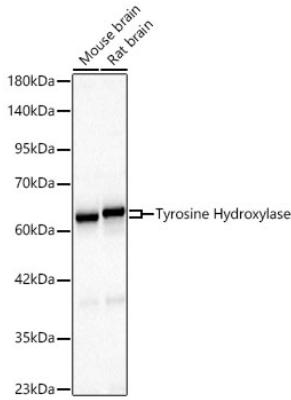
Affinity purification

### Storage

Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.05% proclin300,0.05% BSA,50% glycerol,pH7.3.

## Validation Data



Western blot analysis of various lysates using Tyrosine Hydroxylase Rabbit mAb (A25683) at 1:1000 dilution.

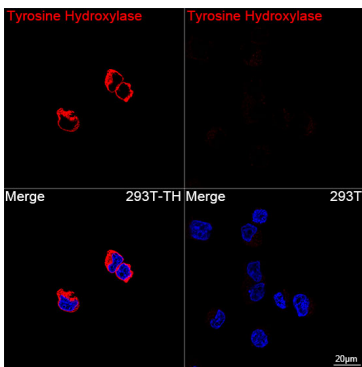
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates / proteins: 25 µg per lane.

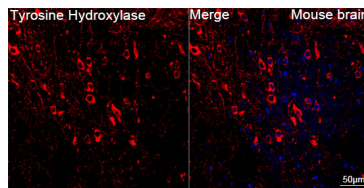
Blocking buffer: 3 % nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

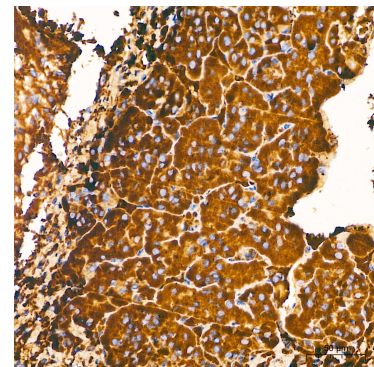
Exposure time: 10s.



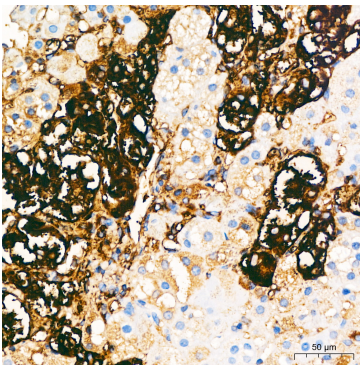
Confocal imaging of 293T cells transfected with TH using Tyrosine Hydroxylase Rabbit mAb (A25683, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 100x.



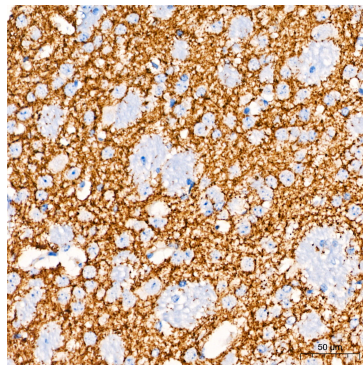
Confocal imaging of paraffin-embedded Mouse brain tissue using Tyrosine Hydroxylase Rabbit mAb (A25683, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 40x. Perform microwave antigen retrieval with 0.01 M citrate buffer (pH 6.0) prior to IF staining.



Immunohistochemistry analysis of paraffin-embedded Mouse adrenal gland tissue using Tyrosine Hydroxylase Rabbit mAb (A25683) at a dilution of 1:4000 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Bufferr (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Human adrenal gland tissue using Tyrosine Hydroxylase Rabbit mAb (A25683) at a dilution of 1:4000 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Bufferr (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Mouse brain tissue using Tyrosine Hydroxylase Rabbit mAb (A25683) at a dilution of 1:4000 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Bufferr (pH 6.0) prior to IHC staining.