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TH Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP6945b

Specification

TH Antibody (C-term) - Product Information

Application	**WB, IHC-P, FC,E**
Primary Accession	P07101
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit Ig**
Calculated MW	**58600**
Antigen Region	**486-514**

TH Antibody (C-term) - Additional Information

Gene ID 7054

Other Names
Tyrosine 3-monooxygenase, Tyrosine 3-hydroxylase, TH, TH, TYH

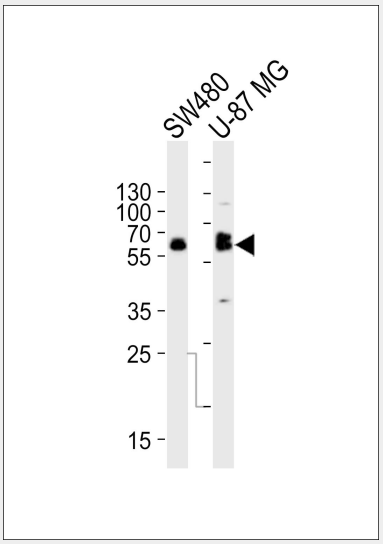
Target/Specificity
This TH antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 486-514 amino acids from the C-terminal region of human TH.

Dilution
WB~~1:1000
IHC-P~~1:50~100
FC~~1:10~50

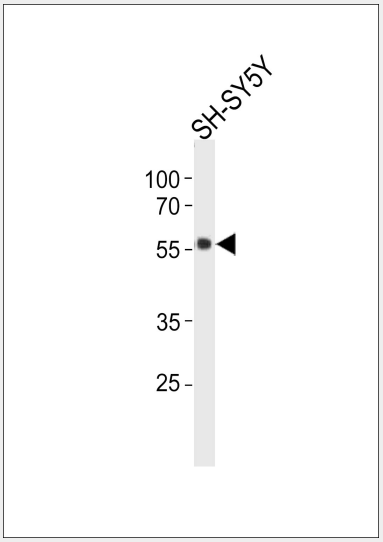
Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
TH Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.



Western blot analysis of lysates from SW480, U-87 MG cell line (from left to right), using TH Antibody (C-term)(Cat. #AP6945b). AP6945b was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody. Lysates at 20ug per lane.



TH Antibody (C-term) (Cat. #AP6945b) western blot analysis in SH-SY5Y cell line lysates (35ug/lane).This demonstrates the TH antibody detected the TH protein (arrow).

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TH Antibody (C-term) - Protein Information

Name TH

Synonyms TYH

Function
Plays an important role in the physiology of adrenergic neurons (By similarity). Positively regulates the regression of retinal hyaloid vessels during postnatal development (By similarity).

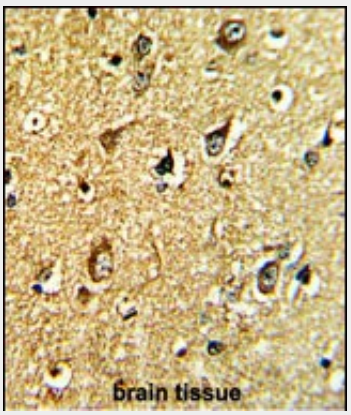
Cellular Location
Cytoplasm, perinuclear region {ECO:0000250|UniProtKB:P24529}

Tissue Location
Mainly expressed in the brain and adrenal glands.

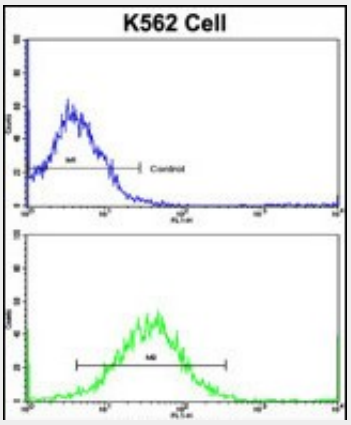
TH Antibody (C-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture



Formalin-fixed and paraffin-embedded human brain tissue with TH Antibody (C-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



Flow cytometric analysis of K562 cells using TH Antibody (C-term)(bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

TH Antibody (C-term) - Background

TH 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.

TH Antibody (C-term) - References

Kuhn,D.M., et.al., J. Biol. Chem. 277 (16), 14336-14342 (2002)