10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

TPH1 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP6930a

Specification

TPH1 Antibody (N-term) - Product Information

Application	**IF, WB, IHC-P, FC,E**
Primary Accession	P17752
Other Accession	Q92142, P09810, P17290, P70080
Reactivity	**Human**
Predicted	**Chicken, Rabbit, Rat, Xenopus**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**50985**
Antigen Region	**35-62**

TPH1 Antibody (N-term) - Additional Information

Gene ID 7166

Other Names
Tryptophan 5-hydroxylase 1, Tryptophan 5-monooxygenase 1, TPH1, TPH, TPRH, TRPH

Target/Specificity
This TPH1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 35-62 amino acids from the N-terminal region of human TPH1.

Dilution
IF~~1:10~50
WB~~1:500
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
TPH1 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

TPH1 Antibody (N-term) - Protein Information

Name TPH1

Synonyms TPH, TPRH, TRPH

Function Oxidizes L-tryptophan to 5-hydroxy-l-tryptophan in the rate- determining step of serotonin biosynthesis.

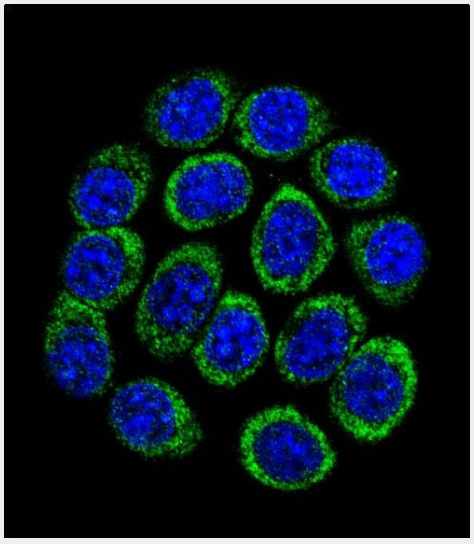
Tissue Location
[Isoform 2]: Seems to be less widely expressed than isoform 1.

TPH1 Antibody (N-term) - Protocols

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

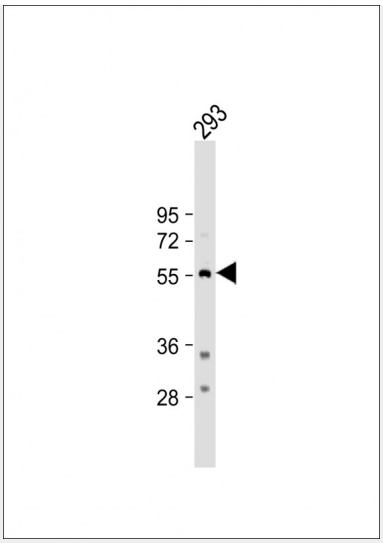
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

TPH1 Antibody (N-term) - Images

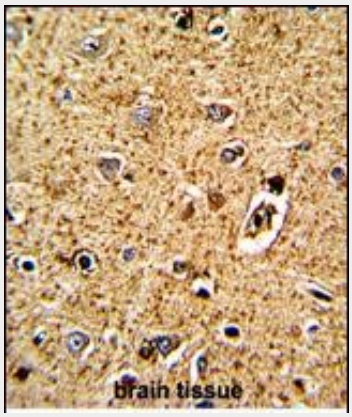


Confocal immunofluorescent analysis of TPH1 Antibody (N-term)(Cat#AP6930a) with 293 cell followed by Alexa Fluor 488-conjugated goat anti-rabbit lgG (green). DAPI was used to stain the cell nuclear (blue).

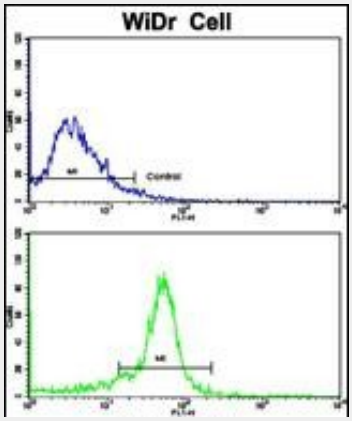
10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999



Anti-TPH1 Antibody (N-term) at 1:500 dilution + 293 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 51 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



Formalin-fixed and paraffin-embedded human brain tissue with TPH1 Antibody (N-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 widr cells using TPH1 Antibody (N-term)(bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

TPH1 Antibody (N-term) - Background

TPH1 is a member of the aromatic amino acid hydroxylase family. This protein catalyzes the first and rate limiting step in the biosynthesis of serotonin, an important hormone and neurotransmitter.

TPH1 Antibody (N-term) - References

Johansson,T.A., et.al., BMC Cancer 9, 321 (2009)
Kuhn,D.M., et.al., J. Neurochem. 68 (5), 2220-2223 (1997)