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TPH1 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP6930a

Product Information

Application	IHC-P, FC, IF, WB, E
Primary Accession	P17752
Other Accession	Q92142, P09810, P17290, P70080
Reactivity	Human
Predicted	Chicken, Rabbit, Rat, Xenopus, Mouse, Bovine, Canine
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB21510
Calculated MW	50985
Antigen Region	35-62

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	IHC-P~~1:100~500 FC~~1:10~50 IF~~1:10~50 WB~~1:1000 E~~Use at an assay dependent concentration.
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.

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.

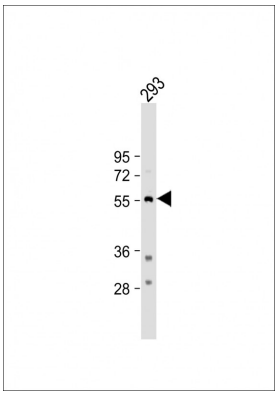
Background

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.

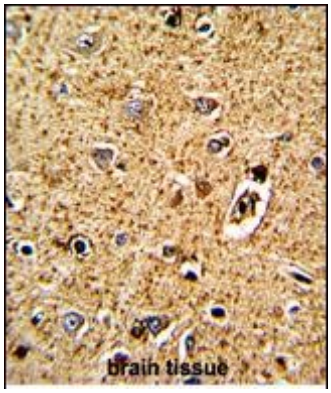
References

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

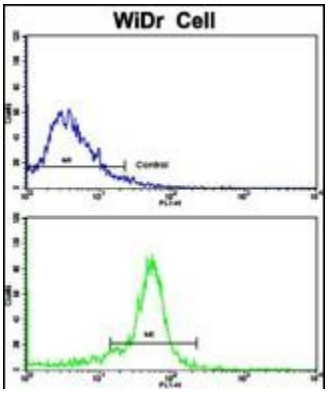
Images



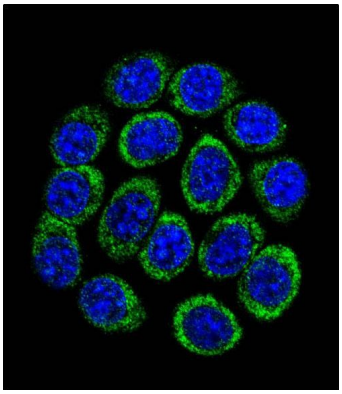
Anti-TPH1 Antibody (N-term) at 1:500 dilution + 293 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 51 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



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.



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).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.