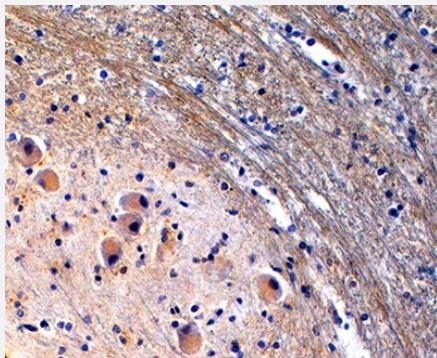


TPH2 polyclonal antibody

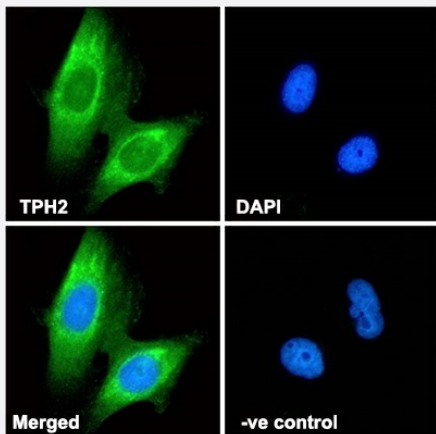
Catalog # PAB6927 Size 100 ug

Applications



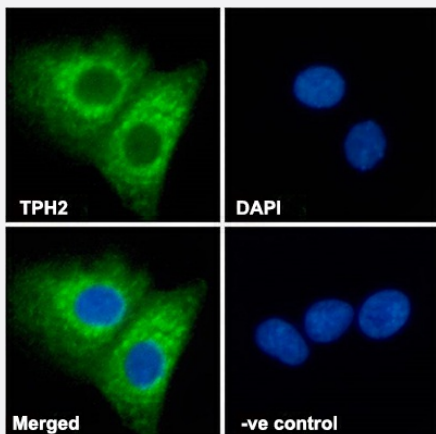
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

TPH2 polyclonal antibody (Cat # PAB6927) (2 ug/mL) staining of paraffin embedded Human Brain Stem. Steamed antigen retrieval with citrate buffer pH 6, HRP-staining.



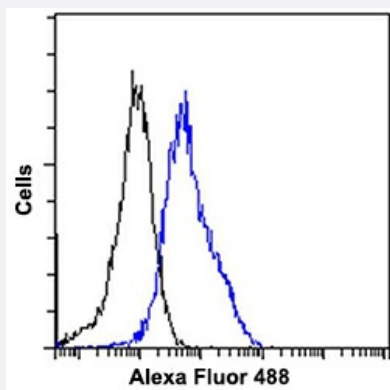
Immunofluorescence

TPH2 polyclonal antibody (Cat # PAB6927) Immunofluorescence analysis of paraformaldehyde fixed U251 cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10 ug/mL) followed by Alexa Fluor 488 secondary antibody (2 ug/mL), showing cytoplasmic staining. The nuclear stain is DAPI (blue).
Negative control: Unimmunized goat IgG (10 ug/mL) followed by Alexa Fluor 488 secondary antibody (2 ug/mL).



Immunofluorescence

TPH2 polyclonal antibody (Cat # PAB6927) Immunofluorescence analysis of paraformaldehyde fixed A549 cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10 ug/mL) followed by Alexa Fluor 488 secondary antibody (2 ug/mL), showing cytoplasmic staining. The nuclear stain is DAPI (blue).
Negative control: Unimmunized goat IgG (10 ug/mL) followed by Alexa Fluor 488 secondary antibody (2 ug/mL).



Flow Cytometry

TPH2 polyclonal antibody (Cat # PAB6927) Flow cytometric analysis of paraformaldehyde fixed U251 cells (blue line), permeabilized with 0.5% Triton. Primary incubation 1hr (10 ug/mL) followed by Alexa Fluor 488 secondary antibody (1 ug/mL). IgG control: Unimmunized goat IgG (black line) followed by Alexa Fluor 488 secondary antibody.

Specification

Product Description	Goat polyclonal antibody raised against synthetic peptide of TPH2.
Immunogen	A synthetic peptide corresponding to human TPH2.
Sequence	C-NKPNSGKNDDKGNK
Host	Goat
Theoretical MW (kDa)	56.1
Form	Liquid
Purification	Antigen affinity purification
Concentration	0.5 mg/mL
Quality Control Testing	Antibody Reactive Against Synthetic Peptide.
Recommend Usage	ELISA (1:32000) Flow Cytometry (10 ug/mL) Immunofluorescence (10 ug/mL) Immunohistochemistry (2-4 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In Tris saline, pH 7.3 (0.5% BSA, 0.02% sodium azide)
Storage Instruction	Store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

TPH2 polyclonal antibody (Cat # PAB6927) (2 ug/mL) staining of paraffin embedded Human Brain Stem. Steamed antigen retrieval with citrate buffer pH 6, HRP-staining.

- Immunofluorescence

TPH2 polyclonal antibody (Cat # PAB6927) Immunofluorescence analysis of paraformaldehyde fixed U251 cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10 ug/mL) followed by Alexa Fluor 488 secondary antibody (2 ug/mL), showing cytoplasmic staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10 ug/mL) followed by Alexa Fluor 488 secondary antibody (2 ug/mL).

- Immunofluorescence

TPH2 polyclonal antibody (Cat # PAB6927) Immunofluorescence analysis of paraformaldehyde fixed A549 cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10 ug/mL) followed by Alexa Fluor 488 secondary antibody (2 ug/mL), showing cytoplasmic staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10 ug/mL) followed by Alexa Fluor 488 secondary antibody (2 ug/mL).

- Enzyme-linked Immunoabsorbent Assay

- Flow Cytometry

TPH2 polyclonal antibody (Cat # PAB6927) Flow cytometric analysis of paraformaldehyde fixed U251 cells (blue line), permeabilized with 0.5% Triton. Primary incubation 1hr (10 ug/mL) followed by Alexa Fluor 488 secondary antibody (1 ug/mL). IgG control: Unimmunized goat IgG (black line) followed by Alexa Fluor 488 secondary antibody.

Gene Info — TPH2

Entrez GeneID [121278](#)

Protein Accession# [NP_775489.2](#)

Gene Name TPH2

Gene Alias FLJ37295, MGC138871, MGC138872, NTPH

Gene Description tryptophan hydroxylase 2

Omim ID [607478](#) [608516](#)

Gene Ontology [Hyperlink](#)

Gene Summary

This gene encodes a member of the pterin-dependent aromatic acid hydroxylase family. The encoded protein catalyzes the first and rate limiting step in the biosynthesis of serotonin, an important hormone and neurotransmitter. The human genome contains two related tryptophan hydroxylases, one on chromosome 11p15-p14 and one on chromosome 12q21. This gene is expressed predominantly in the brain stem. Mutations in this gene may be associated with psychiatric diseases such as bipolar affective disorder and major depression. [provided by RefSeq]

Other Designations

neuronal tryptophan hydroxylase|tryptophan 5-monoxygenase 2

Publication Reference

- [Haplotype-based linkage of tryptophan hydroxylase 2 to suicide attempt, major depression, and cerebrospinal fluid 5-hydroxyindoleacetic acid in 4 populations.](#)

Zhou Z, Roy A, Lipsky R, Kuchipudi K, Zhu G, Taubman J, Enoch MA, Virkkunen M, Goldman D.

Archives of General Psychiatry 2005 Oct; 62(10):1109.

Pathway

- [Biosynthesis of alkaloids derived from shikimate pathway](#)
- [Metabolic pathways](#)
- [Tryptophan metabolism](#)

Disease

- [Alcoholism](#)
- [Alcohol-Related Disorders](#)
- [Anorexia Nervosa](#)
- [Anxiety Disorders](#)
- [Arousal](#)
- [Attention](#)
- [Attention Deficit Disorder with Hyperactivity](#)
- [Autistic Disorder](#)

- [Bipolar Disorder](#)
- [Borderline Personality Disorder](#)
- [Brain Injuries](#)
- [Bulimia](#)
- [Cardiovascular Diseases](#)
- [Child Development Disorders](#)
- [Cocaine-Related Disorders](#)
- [Cognition](#)
- [Cues](#)
- [Decision Making](#)
- [Depression](#)
- [Depressive Disorder](#)
- [Diabetes Complications](#)
- [Diabetes Mellitus](#)
- [Discrimination \(Psychology\)](#)
- [Disease Models](#)
- [Edema](#)
- [Electroconvulsive Therapy](#)
- [Fatigue Syndrome](#)
- [Gambling](#)
- [Genetic Predisposition to Disease](#)
- [Hepatitis C](#)
- [Heroin Dependence](#)
- [Learning Disorders](#)
- [Liver Cirrhosis](#)
- [Memory](#)

- [Mental Disorders](#)
- [Metabolic Syndrome X](#)
- [Migraine Disorders](#)
- [Mood Disorders](#)
- [Mucocutaneous Lymph Node Syndrome](#)
- [NARP](#)
- [Neuropsychological Tests](#)
- [Obsessive-Compulsive Disorder](#)
- [Panic Disorder](#)
- [Personality Assessment](#)
- [Personality Disorders](#)
- [Personality Inventory](#)
- [Personality Tests](#)
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- [Prenatal Exposure Delayed Effects](#)
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- [Psychophysiologic Disorders](#)
- [Reaction Time](#)
- [Recurrence](#)
- [Reward](#)
- [Schizophrenia](#)
- [Schizophrenic Psychology](#)
- [Sleep Disorders](#)

- [Somatoform Disorders](#)
- [Startle Reaction](#)
- [Stress](#)
- [Substance-Related Disorders](#)
- [Sudden Infant Death](#)
- [Task Performance and Analysis](#)
- [Tobacco Use Disorder](#)
- [Uncertainty](#)
- [Visual Perception](#)
- [Weight Gain](#)