For Research Use Only

TPH2 Polyclonal antibody

Catalog Number: 29283-1-AP



Purification Method:

WB: 1:500-1:1000 IHC: 1:50-1:500

Antigen affinity purification

Recommended Dilutions:

Basic Information

Catalog Number:

29283-1-AP

Concentration:

270 ug/ml

Source:

Rabbit

Little Sequence of Sequence o

IgG tryptophan hydroxylase 2

 Immunogen Catalog Number:
 Calculated MW:

 AG30281
 490 aa, 56 kDa

 Observed MW:

55 kDa

Applications

Tested Applications: WB, IHC, ELISA Species Specificity:

human, mouse, rat

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate

buffer pH 6.0

Background Information

TPH2 protein is a key enzyme in the synthesis of serotonin in the brain. It is mainly expressed in the brain and is responsible for converting tryptophan to 5-hydroxytryptophan, a precursor of serotonin. TPH2 plays a crucial role in regulating mood, anxiety, and stress responses. Variations in the TPH2 gene have been associated with several psychiatric disorders, including depression and bipolar disorder. Additionally, TPH2 expression can be regulated by various factors, such as hormones and environmental stimuli (PMID: 22241550, PMID: 29775696, PMID: 32119710, PMID: 40204433).

Positive Controls:

WB: rat brain tissue, mouse brain tissue

IHC: mouse brain tissue, rat brain tissue

Storage

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Storage:

Store at -20°C. Stable for one year after shipment. Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3 $\,$

Aliquoting is unnecessary for -20°C storage

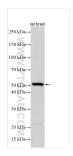
For technical support and original validation data for this product please contact:

E: Proteintech-CN@ptglab.com

W: ptgcn.cor

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Selected Validation Data



Rat brain tissue were subjected to SDS PAGE followed by western blot with 29283-1-AP (TPH2 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffinembedded mouse brain tissue slide using 29283-1-AP (TPH2 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).