

For Research Use Only

TPH1 Polyclonal antibody, PBS Only

Catalog Number: 29904-1-PBS



Basic Information

Catalog Number:

29904-1-PBS

Size:

100ug, Concentration: 1 mg/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG31623

GenBank Accession Number:

BC106739

GeneID (NCBI):

7166

UNIPROT ID:

P17752

Full Name:

tryptophan hydroxylase 1

Calculated MW:

466 aa, 53 kDa

Observed MW:

51 kDa

Purification Method:

Antigen affinity purification

Applications

Tested Applications:

WB, IHC, Indirect ELISA

Species Specificity:

human, mouse

Background Information

Tryptophan hydroxylase 1 (TPH1) is the rate-limiting enzyme in the synthesis of serotonin (5-HT) from the amino acid tryptophan. It is primarily found in peripheral tissues such as the gut, pineal gland, and spleen. TPH1 plays a crucial role in regulating peripheral serotonin levels, which are involved in various physiological processes including gastrointestinal motility and cardiovascular function. Additionally, TPH1 has been implicated in the regulation of blood glucose levels and is associated with conditions such as fatty liver disease. (PMID: 32590025, PMID: 36331742, PMID: 37652099)

Storage

Storage:

Store at -80°C.

Storage Buffer:

PBS only, pH7.3

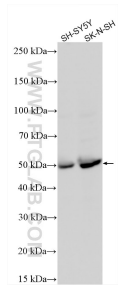
For technical support and original validation data for this product please contact:

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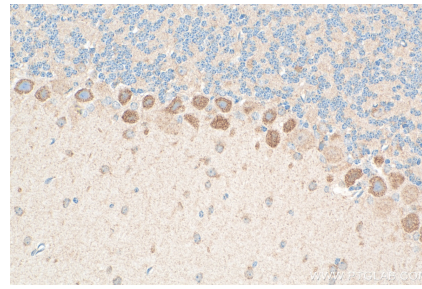
E: proteintech@ptglab.com
W: ptglab.com

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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 29904-1-AP (TPH1 antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 29904-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded mouse cerebellum tissue slide using 29904-1-AP (TPH1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 29904-1-PBS in a different storage buffer formulation.