

TPH1

Reactivity: Human Mouse Rat

Tested applications: WB IHC

Recommended Dilution: WB 1:500 - 1:2000 IHC 1:50 - 1:200

Calculated MW: 55kDa

Observed MW: Refer to Figures

Immunogen:

Recombinant protein of human TPH1

Storage Buffer:

Store at -20. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Synonym:

TPH1;MGC119994;TPRH;TRPH;Tryptophan 5-hydroxylase 1;

Catalog #: A1569

Antibody Type:

Polyclonal Antibody

Species: Rabbit

Gene ID: 7166

Isotype: IgG

Swiss Prot: P17752

Purity: Affinity purification

For research use only.

Background:

Tryptophan hydroxylase (TPH) is the rate-limiting enzyme in the biosynthesis of serotonin (1) by converting tryptophan to 5-hydroxy-L-tryptophan (2). Two isoforms of TPH exist: TPH-1 is mainly expressed in the periphery, whereas the expression of TPH-2 is restricted to neuronal cells and the central nervous system (3). Most of the serotonin found throughout the body is synthesized by TPH-1 in enterochromaffin cells of the gastrointestinal tract. Targeted disruption of the *tph1* gene results in low levels of circulating and tissue serotonin (4).

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