

## 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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