

Product Datasheet

TPH1 Antibody



Catalog No: CY5574

Reactivity: Human Mouse Rat

Isotype: Rabbit IgG

Applications: WB IHC IP

Information

UniProt ID: P17752

All Names: TPH1;MGC119994;TPRH;TRPH;Tryptophan 5-hydroxylase 1; Tryptophan Hydroxylase;

Form: Liquid

Storage instructions: Store at +4° C short term. Store at -20° C long term. Avoid freeze / thaw cycle.

Storage buffer: pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.

Purity: Affinity-chromatography

Immunogen: A synthesized peptide

Molecular Wt.: 51 kDa

Application

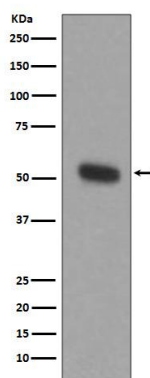
WB: 1:500~1:2000

IHC: 1:50~1:200

IP: 1:50

Background

Tryptophan hydroxylase (TPH) is the rate-limiting enzyme in the biosynthesis of serotonin by converting tryptophan to 5-hydroxy-L-tryptophan. 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. 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.



Western blot analysis of TPH1 expression in THP-1 cell lysate.

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