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TPH1 Antibody

Rabbit mAb
Catalog # AP90577

Product Information

Application	WB, IHC, IP
Primary Accession	P17752
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Other Names	TPH1;MGC119994;TPRH;TRPH;Tryptophan 5-hydroxylase 1; Tryptophan Hydroxylase;
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	50985

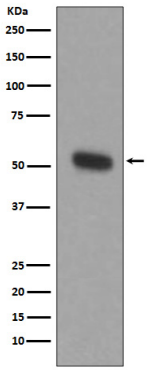
Additional Information

Dilution	WB 1:500~1:2000 IHC 1:50~1:200 IP 1:50
Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human TPH1
Description	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.
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

Protein Information

Name	TPH1
Synonyms	TPH, TPRH, TRPH
Function	Oxidizes L-tryptophan to 5-hydroxy-l-tryptophan in the rate- determining step of serotonin biosynthesis.
Tissue Location	[Isoform 2]: Seems to be less widely expressed than isoform 1.

Images



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