Product Name: TPH1 (16G2) Rabbit Monoclonal Antibody
Catalog #: AMRe19152

Summary

Production Name	TPH1 (16G2) Rabbit Monoclonal Antibody
Description	Rabbit Monoclonal Antibody
Host	Rabbit
Application	WB,IHC-P
Reactivity	Human,Mouse

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Monoclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% New type preservative N and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.
Purification	Affinity purification

Immunogen

Gene Name	TPH1
Alternative Names	TPH1;MGC119994;TPRH;TRPH;Tryptophan 5-hydroxylase 1; Tryptophan Hydroxylase;
Gene ID	7166.0
SwissProt ID	P17752.

Application

Dilution Ratio	WB 1:1000, IHC-P/IF-P 1:200-1:2000
Molecular Weight	51kDa

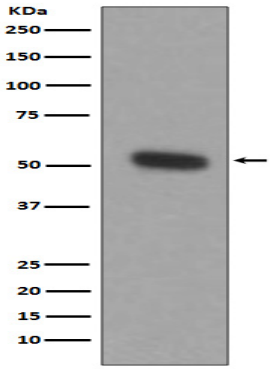
Product Name: TPH1 (16G2) Rabbit Monoclonal Antibody
Catalog #: AMRe19152

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. Oxidizes L-tryptophan to 5-hydroxy-l-tryptophan in the rate- determining step of serotonin biosynthesis.

Research Area

Image Data



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

Note

For research use only.