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Immunotag™ TPH2 Polyclonal Antibody

Antibody Specification

Catalog No.	ITT4711
Product Description	Immunotag™ TPH2 Polyclonal Antibody
Size	50 µg, 100 µg
Conjugation	HRP, Biotin, FITC, Alexa Fluor® 350, Alexa Fluor® 405, Alexa Fluor® 488, Alexa Fluor® 555, Alexa Fluor® 594, Alexa Fluor® 647
IMPORTANT NOTE	This product is custom manufactured with a lead time of 3-4 weeks. Once in production, this item cannot be cancelled from an order and is not eligible for return.
Target Protein	TPH2
Clonality	Polyclonal
Storage/Stability	-20°C/1 year
Application	WB,ELISA
Recommended Dilution	Western Blot: 1/500 - 1/2000. ELISA: 1/40000. Not yet tested in other applications.
Concentration	1 mg/ml
Reactive Species	Human,Mouse,Rat,Monkey
Host Species	Rabbit
Immunogen	Synthesized peptide derived from TPH2, at AA range: 1-80
Specificity	TPH2 Polyclonal Antibody detects endogenous levels of TPH2 protein.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen
Form	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Gene Name	TPH2
Accession No.	Q8IWU9 Q8CGV2 Q8CGU9
Alternate Names	TPH2; NTPH; Tryptophan 5-hydroxylase 2; Neuronal tryptophan hydroxylase; Tryptophan 5-monooxygenase 2

Antibody Specification

Description	tryptophan hydroxylase 2(TPH2) Homo sapiens This gene encodes a member of the pterin-dependent aromatic acid hydroxylase family. The encoded protein catalyzes the first and rate limiting step in the biosynthesis of serotonin, an important hormone and neurotransmitter. Mutations in this gene may be associated with psychiatric diseases such as bipolar affective disorder and major depression. [provided by RefSeq, Feb 2016],
Cell Pathway/ Category	Tryptophan metabolism,
Protein Expression	Amygdala,PCR rescued clones,
Subcellular Localization	cytosol,neuron projection,
Protein Function	catalytic activity:L-tryptophan + tetrahydrobiopterin + O(2) = 5-hydroxy-L-tryptophan + 4a-hydroxytetrahydrobiopterin.,cofactor:Fe(2+) ion.,disease:Genetic variation in TPH2 may influence susceptibility to major depressive disorder (MDD) [MIM:608516].,pathway:Aromatic compound metabolism; serotonin biosynthesis; serotonin from L-tryptophan: step 1/2.,similarity:Belongs to the biopterin-dependent aromatic amino acid hydroxylase family.,similarity:Contains 1 ACT domain.,tissue specificity:Brain specific.,
Usage	For Research Use Only! Not for diagnostic or therapeutic procedures.