



TPH1 Monoclonal Antibody

Catalog No	YP-mAb-02802
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	TPH1
Immunogen	The antiserum was produced against synthesized peptide derived from human Tryptophan Hydroxylase. AA range:231-280
Specificity	TPH1 Monoclonal Antibody detects endogenous levels of TPH1 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	EC:1.14.16.4;TPH;TPH 1;TPRH;TRPH;Tryptophan Hydroxylase;TPH1; Tryptophan 5-hydroxylase 1;Tryptophan 5-monoxygenase 1
Observed Band	51kD
Calculated Molecular Weight	51kD
Cell Pathway	cytosol,neuron projection,
Tissue Specificity	[Isoform 2]: Seems to be less widely expressed than isoform 1.
Function	catalytic activity:L-tryptophan + tetrahydrobiopterin + O(2) = 5-hydroxy-L-tryptophan + 4a-hydroxytetrahydrobiopterin.,cofactor:Fe(2+) ion., 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., subunit:Multimer of identical subunits.,tissue specificity:Isoform 2 seems to be less widely expressed than isoform 1.,
Background	This gene encodes a member of the aromatic amino 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



have been associated with an elevated risk for a variety of diseases and disorders, including schizophrenia, somatic anxiety, anger-related traits, bipolar disorder, suicidal behavior, addictions, and others.[provided by RefSeq, Apr 2009],

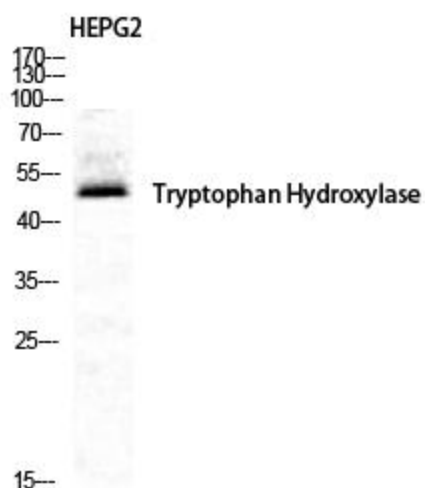
matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Western Blot analysis of various cells using TPH1 Monoclonal Antibody