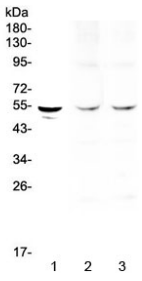
TPH1 Antibody / Tryptophan Hydroxylase (RQ4409)

Catalog No.	Formulation	Size
RQ4409	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
UniProt	P17752
Applications	Western blot: 0.5-1ug/ml ELISA: 0.1-0.5ug/ml
Limitations	This TPH1 antibody is available for research use only.



Western blot testing of 1) human SGC-7901, 2) rat heart and 3) mouse heart lysate with TPH1 antibody at 0.5ug/ml. Predicted molecular weight ~51 kDa.

Description

Tryptophan hydroxylase 1 (TPH1) is an isoenzyme of tryptophan hydroxylase which in humans is encoded by the TPH1 gene. 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.

Application Notes

Optimal dilution of the TPH1 antibody should be determined by the researcher.

Immunogen

A human partial recombinant protein corresponding to amino acids M1-K111 was used as the immunogen for the TPH1 antibody.

Storage

After reconstitution, the TPH1 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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