

TPH1 polyclonal antibody

Catalog: BS91370

Host: Rabbit

Reactivity: Human, Mouse, Rat

BackGround:

Phenylalanine hydroxylase (PAH), tyrosine hydroxylase (TH) and tryptophan hydroxylase (TPH) comprise a small family of monooxygenases that use tetrahydropterine as a cofactor during the catabolism of aromatic L-amino acids. PAH, TH and TPH all contain catalytic domains with an amino-terminal regulatory domain and a short carboxy-terminal tetramerization domain. Each of these enzymes also contains a single ferrous iron atom, which is bound to two histidines and a glutamate and is likely to be involved in the formation of the hydroxylating intermediate. TPH is the first and rate-limiting step in the biosynthesis of serotonin in the central nervous system and melatonin in the pineal gland. Alteration of TPH function may be a key factor in the pathology of several neuropsychiatric disorders associated with serotonin, including depression, aggression, alcoholism and schizophrenia. For instance, L-DOPA, which is used as a common therapy for Parkinson's disease (PD) patients, inhibits TPH function, which subsequently, is thought to contribute to the onset of depression in PD patients.

Product:

Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

Molecular Weight:

51 kDa

Swiss-Prot:

P17752(Human) P17532(Mouse) P09810(Rat)

Purification&Purity:

ProA affinity purified

Applications:

WB:1:1,000

ICC:1:50-1:200

IHC:1:50-1:200

FC:1:50-1:100

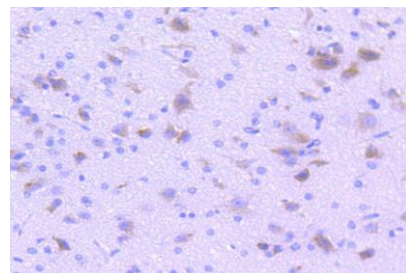
Storage&Stability:

Store at +4 °C after thawing. Aliquot store at -20 °C or -80 °C. Avoid repeated freeze / thaw cycles.

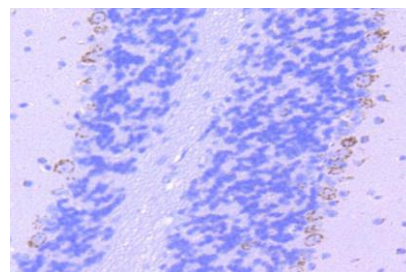
Specificity:

TPH1 polyclonal antibody detects endogenous levels of TPH1 protein.

DATA:



Immunohistochemical analysis of paraffin-embedded rat brain tissue using anti-TPH1 antibody. Counter stained with hematoxylin.



Immunohistochemical analysis of paraffin-embedded mouse cerebellum tissue using anti-TPH1 antibody. Counter stained with hematoxylin.

Note:

For research use only, not for use in diagnostic procedure.

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