TPH1 (phospho-S260) polyclonal antibody

Catalog: BS4614 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.

Product:

1 mg/ml in Phosphate buffered saline (PBS) with 0.05% sodium azide, approx. pH 7.2.

Molecular Weight:

~ 51 kDa

Swiss-Prot:

P17752

Purification&Purity:

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

Applications:

WB: 1:500~1:1000

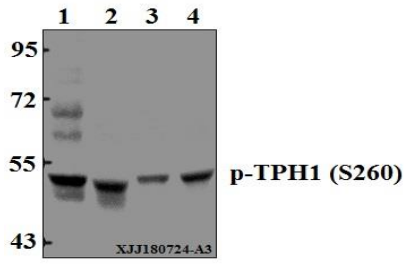
Storage&Stability:

Store at 4℃ short term. Aliquot and store at -20℃ long term. Avoid freeze-thaw cycles.

Specificity:

TPH1 (phospho-S260) polyclonal antibody detects endogenous levels of TPH1 protein when phosphorylated at Ser260.

DATA:



Western blot (WB) analysis of p-TPH1 (S260) pAb at 1:500 dilution

Lane1:HEK293T whole cell lysate(40μg)

Lane2:The Lung tissue lysate of Mouse(40μg)

Lane3:LO2 whole cell lysate(40μg)

Lane4:C6 whole cell lysate(40μg)

Note:

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

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