

## TPH1 (Phospho-S58) polyclonal antibody

Catalog: BS64532

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:

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

### 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 IHC:1:50~1:200

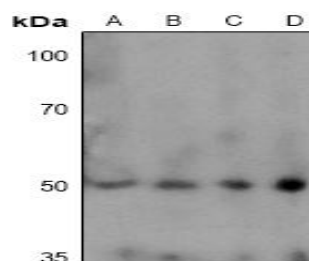
### Storage&Stability:

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

### Specificity:

TPH1 (Phospho-S58) polyclonal antibody detects endogenous levels of TPH1 protein only when phosphorylated at Ser58.

### DATA:



Western blot (WB) analysis of TPH1 (Phospho-S58) polyclonal antibody at 1:500 dilution

LaneA:HEK293T whole cell lysate

LaneB:THP-1 whole cell lysate

LaneC:MCF-7 whole cell lysate

LaneD:SGC7901 whole cell lysate

### Note:

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

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