

TPH1 (K54) polyclonal antibody

Catalog: BCP01661

Host: Rabbit

Reactivity: Human

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

IF: 1:50~1:200

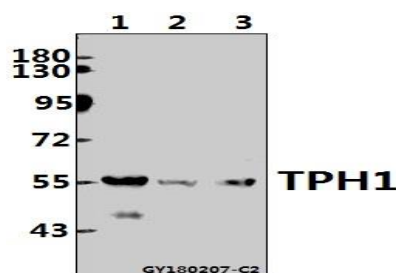
Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long

term. Avoid freeze-thaw cycles.

Specificity:

TPH1 (K54) polyclonal antibody detects endogenous levels of TPH1 protein.

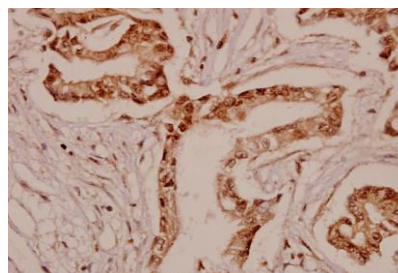
DATA:

Western blot (WB) analysis of TPH1 (K54) pAb at 1:500 dilution

Lane1:HEK293T whole cell lysate(40ug)

Lane2:MCF-7 whole cell lysate(40ug)

Lane3:A549 whole cell lysate(40ug)



Immunohistochemistry (IHC) analyzes of TPH1 (K54) pAb in paraffin-embedded human breast carcinoma tissue at 1:50.

Note:

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