

AP06420PU-N**Polyclonal Antibody to Tyrosine 3-monooxygenase (TH) - Aff - Purified****Alternate names:** TYH, Tyrosine 3-hydroxylase**Quantity:** 0.1 mg**Concentration:** 1.0 mg/ml

Background: The enzyme tyrosine hydroxylase (TH), also designated tyrosine 3-monooxygenase (TY3H), catalyzes the conversion of tyrosine to L-dopa, which is the rate limiting step in the biosynthesis of catecholamines such as dopamine, adrenalin and noradrenalin. TH is thought to play a role in the pathogenesis of Parkinson's disease, which is associated with reduced dopamine levels. Two transcription factor binding sites in the proximal region of the TH gene, the TPA-responsive element (TRE) and the c-AMP responsive element (CRE), have been implicated in the complex regulation of the TH gene. TH is also known to be upregulated by the glia maturation factor (GMF), a Cdc 10/SWI6 motif-containing protein called V-1, and a variety of additional compounds.

Uniprot ID: [P07101](#)**NCBI:** [NP_000351.2](#)**GeneID:** [7054](#)**Host:** Rabbit**Immunogen:** Synthetic peptide, corresponding to the N-terminus of Human TH.

Format: **State:** Liquid purified Ig fraction
Purification: Affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE)
Buffer System: Phosphate buffered saline (PBS), pH 7.2.
Preservatives: 0.05% sodium azide

Applications: **Western blot:** 1/500-1/1000.
Immunohistochemistry on paraffin sections: 1/50-1/200.
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

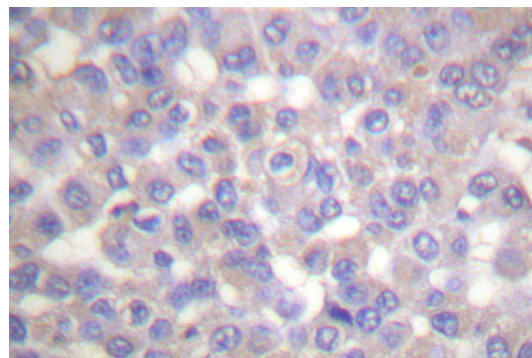
Molecular Weight: ~ 58 kDa**Specificity:** This antibody detects endogenous levels of Tyrosine Hydroxylase protein. (region surrounding Gln25)

Species Reactivity: **Tested:** Human.
Expected from sequence similarity: Mouse and Rat.

Storage: Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.

Pictures:

Immunohistochemistry (IHC) analyzes of Tyrosine Hydroxylase antibody (Cat.-No.: AP064020PU-N) in paraffin-embedded human breast carcinoma tissue.



Western blot (WB) analysis of Tyrosine Hydroxylase antibody (Cat.-No.: AP064020PU-N) in extracts from 293 cells treated with UV 15' or COS7 cells treated with Heat shock.

