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PRODUCT DATASHEET

Anti-Tyrosine Hydroxylase (TH) Antibody

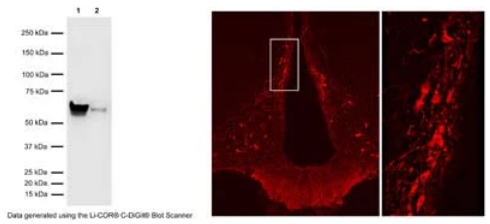
Product Details

Available Variants	50 µg (SKU:R-148-50)
Conjugate	Unconjugated
Isotype	IgG
Host Species	Rabbit
Format	Affinity-purified
Physical State	Lyophilized
Applications	IHC, WB
Dilution Ranges	WB: 0.5-2 µg/mL IHC: 0.5-1 µg/mL
Species Reactivity	Human, Rat
Immunogen	A synthetic peptide (SPRFIGRRQSLIEDARK) as part of human Tyrosine Hydroxylase (aa: 32-47) conjugated to KLH
Specificity	IHC on brain shows a pattern of staining specific for TH containing neurons. This antibody is known to react with rat. Cross reactivity with other species has not yet been tested.
Molecular Weight	60 kDa
Storage	Spin vial briefly before opening. Reconstitute in 50 µL sterile-filtered, ultrapure water. Centrifuge to remove any insoluble material. After reconstitution keep aliquots at -20°C for a higher stability, and at 2-8°C with an appropriate antibacterial agent. Glycerol (1:1) may be added for an additional stability. Avoid repetitive freeze/thaw cycles.
UniProt ID	P04177 UniProt Summary: Catalyzes the conversion of L-tyrosine to L-dihydroxyphenylalanine (L-Dopa), the rate-limiting step in the biosynthesis of catecholamines, dopamine, noradrenaline, and adrenaline. Uses tetrahydrobiopterin and molecular oxygen to convert tyrosine to L-Dopa. In

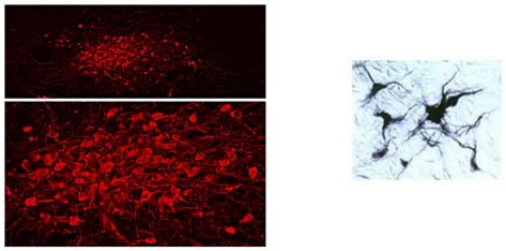
addition to tyrosine, is able to catalyze the hydroxylation of phenylalanine and tryptophan with lower specificity. Positively regulates the regression of retinal hyaloid vessels during postnatal development.

Country of Origin	United States
Shipping	25°C (ambient)
Expiration	12 months after date of receipt (unopened vial).
Usage Statement	For research use only.
NCBI Gene ID	25085

Product Images



Left: Western Blot analysis of tyrosine hydroxylase (TH) expression in PC12 cell lysate (Lane 1: 6 ug) and mouse brain (Lane 2: 40 ug). The anti-TH rabbit antibody (1 µg/mL) detects one specific band at ~60 kDa corresponding to the expected molecular weight of TH in both samples. **Method:** SDS Page: denaturing and reducing, 4-12% Bis-Tris gel; Transfer: Tris-Glycine (Towbin's buffer) with 20% methanol; Membrane: PVDF (0.45 um); Blocking: 5% skim milk in TBST, 1 hr at RT; Primary antibody: R-148-50 (1 µg/mL), overnight at 2-8°C; Secondary antibody: donkey anti-rabbit (1:25,000), 1 hr at RT; Detection: Chemiluminescence. **Right:** Detection of TH-immunoreactivity in tuberoinfundibular dopaminergic neurons in rat hypothalamic arcuate nucleus by **Immunohistochemistry**. Primary antibody: rabbit anti-TH cat# R-148-50 (1:2,000); Secondary antibody: Cy3-conjugated anti-rabbit. Photo courtesy of Dr. Erik Hrabovszky, Hungarian Academy of Sciences, Budapest, Hungary.



Left: Visualization of dopaminergic neurons in formalin-fixed floated cryostat section from the rat zona incerta by **Immunohistochemistry**. TH-immunoreactivity was detected with rabbit anti-TH antibody R-148-50 (1:2,000), followed by Cy3-conjugated anti-rabbit antibody. Photo courtesy of Dr. Erik Hrabovszky, Hungarian Academy of Sciences, Budapest, Hungary. **Right:** Staining of TH-IR catacholaminergic neurons in the rat brainstem using the DAB method.

Created on 19. November 2026 | All information without guarantee