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PRODUCT DATASHEET

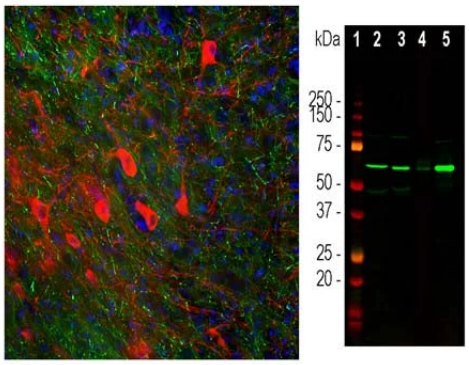
Anti-Tyrosine Hydroxylase (TH) Antibody

Product Details

Available Variants	100 µg (SKU:R-2120-100)
Conjugate	Unconjugated
Isotype	IgG
Host Species	Rabbit
Format	Affinity-purified
Physical State	Lyophilized
Buffer	Lyophilized from PBS buffer pH 7.2-7.6 with 0.1% trehalose, and sodium azide
Applications	ICC, IHC, WB
Dilution Ranges	WB: 1:5000-1:10000 IHC: 1:100-1:500 ICC: 1:100-1:500
Species Reactivity	Human, Mouse, Rat
Immunogen	The antibody has been made against the full length recombinant human TH (524 amino acid sequence) expressed in and purified from E. Coli
Specificity	Human. Species cross-reactivity includes rat and mouse.
Storage	Spin vial briefly before opening. Reconstitute with 100 µL sterile-filtered, ultrapure water. Centrifuge to remove any insoluble material. After reconstitution of lyophilized antibody, aliquot and store at -20°C for a higher stability. Avoid freeze-thaw cycles. Store at 4°C for up to one month for short term storage and frequent use.
UniProt ID	P07101 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	7054

Product Images



Left: Visualization of tyrosine hydroxylase expression in rat brain by **Immunofluorescent analysis**. Section was stained with rabbit anti-TH antibody, R-2120-100, (red, 1:10,000); costained with mouse antibody to pNF-H (green, 1:1,000); and Hoechst staining of nuclear DNA (blue). Following transcardial perfusion of rat with 4% paraformaldehyde, the brain was post fixed for 24 hours and cut into 45µM free floating sections for staining. Product R-2120-100 stains the striatal TH expressing interneurons. **Right:** Western blot analysis of tissues and lysates using R-2120-100 (green, 1:5,000) with a band at approx. 60kDa in brain and PC12 extracts. Lane 1: protein standard (red); Lane 2: rat brain; Lane 3: mouse brain; Lane 4: SH-SY5Y cells; Lane 5: PC12 cells.