Product Datasheet

Tyrosine Hydroxylase [p Ser40] Antibody - Azide Free NB300-173

Unit Size: 0.1 ml

Store at -20C. Avoid freeze-thaw cycles.

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NB300-173

Tyrosine Hydroxylase [p Ser40] Antibody - Azide Free

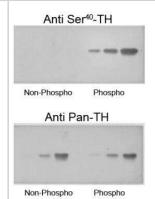
Tyrosine Hydroxylase [p Ser40] Antibody - Azide Free	
Product Information	
Unit Size	0.1 ml
Concentration	Please see the vial label for concentration. If unlisted please contact technical services.
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	No Preservative
Isotype	IgG
Purity	Antigen Affinity-purified
Buffer	10 mM HEPES (pH 7.5), 0.15 M NaCl, 0.1 mg/mL BSA, 50% Glycerol
Target Molecular Weight	60 kDa
Product Description	
Host	Rabbit
Gene ID	7054
Gene Symbol	TH
Species	Mouse, Rat, Mammal
Reactivity Notes	Reactivity assumed based on sequence identity to a wide variety of mammalian and non-mammalian species.
Marker	Neuronal Marker
Specificity/Sensitivity	Specific for the ~60 kDa tyrosine hydroxylase protein phosphorylated at Ser40. Some higher molecular weight bands may be detected by the antibody depending upon the brain region being studied, protein loads and the detection methods used. The antibody has three orders of magnitude selectivity over dephospho TH.
Immunogen	Synthetic phospho-peptide corresponding to amino acid residues surrounding Tyrosine Hydroxylase conjugated to KLH. Accession # P04177
Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen
Recommended Dilutions	Western Blot 1:1000 Immunohistochemistry 1:1000 Immunocytochemistry/

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Recommended Dilutions	Western Blot 1:1000, Immunohistochemistry 1:1000, Immunocytochemistry/Immunofluorescence 1:1000, Immunohistochemistry-Frozen 1:1000



Images

Tyrosine Hydroxylase [p Ser40] Antibody [NB300-173] - Western blot of recombinant phospho-TH and non-phospho-TH showing selective immunolabeling by the phosphospecific antibody of the ~60 kDa TH phosphorylated at Ser40. The pan-specific antibody (anti-pan-TH) recognized both the phospho- and non-phospho-TH; while most importantly, the phospho-specific antibody (anti-Ser40 TH) recognized only phospho-TH.



Immunohistochemistry: Tyrosine Hydroxylase [p Ser40] Antibody [NB300 -173] - Immunohistochemical staining of retina with the pan-tyrosine hydroxylase (pan-TH) and phospho-specific tyrosine hydroxylase (phospho-TH) antibodies. The pan-TH antibody shows extensive labeling in this photomicrograph of the retina. In contrast, the phospho-TH antibody selectively labels only the two amacrine cells in this light-stimulated retina example.



Immunohistochemical staining of retins with the pan-tyrosine hydroxylase (pan-TH) and phospho-specific tyrosine hydroxylase (phospho-TH) antibodies. The pan-TH antibody shows extensive labeling in this photomicrograph of the retina. In contrast, the phospho-TH antibod selectively labels only the two amacrine cells in this light-stimulated retina example.

Publications

Naumova AA, Oleynik EA, Khramtsova AV et al. Short-term hindlimb unloading negatively affects dopaminergic transmission in the nigrostriatal system of mice Developmental neurobiology 2023-07-24 [PMID: 37489016]

Bourdon R Regulation of epinephrine biosynthesis by intermittent and continuous hypoxia Nat Commun 2020-02-07 [PMID: 32024825]

Thapa D, Valente JS, Barrett B Et al. Dysfunctional TRPM8 signalling in the vascular response to environmental cold in ageing eLife 2021-11-02 [PMID: 34726597] (WB, Mouse)

Acosta G, Race N, Herr S et al. Acrolein-mediated alpha-synuclein pathology involvement in the early post-injury pathogenesis of mild blast-induced Parkinsonian neurodegeneration Mol. Cell. Neurosci. 2019-06-12 [PMID: 31201929] (WB, Rat)

Acosta GHG. Susceptibility of parkinson's disease following mild blast traumatic brain injury Thesis. 2014-08-01 (WB, Rat)

Soliz J, Joseph V, Soulage C et al. Erythropoietin regulates hypoxic ventilation in mice by interacting with brainstem and carotid bodies J Physiol. 2005-10-15 [PMID: 16051624] (IF/IHC, Mouse)

Witkovsky P, Gabriel R, Haycock JW et al. Influence of light and neural circuitry on tyrosine hydroxylase phosphorylation in the rat retina. J Chem Neuroanat. 2000-06-01 [PMID: 10936746] (IHC-Fr)

Gassmann M, Pfistner C, Doan VD et al. Impaired ventilatory acclimatization to hypoxia in female mice overexpressing erythropoietin: unexpected deleterious effect of estradiol in carotid bodies. Am J Physiol Regul Integr Comp Physiol 2010-12-01 [PMID: 20861276] (ICC/IF, IHC-Fr, Mouse)

Salvatore, MF et al. Stoichiometry of tyrosine hydroxylase phosphorylation in the nigrostriatal mesolimbic systems in vivo: effects of acute haloperidol related compounds. J Neurochem, 75: 225-232. 2000-01-01 [PMID: 10854265]

Lew, JY et al. Increased site-specific phosphorylation of tyrosine hydroxylase accompanies stimulation of enzymatic activity induced by cessation of dopamine neuronal activity. Mol Pharm, 55: 202-209. 1998-01-01 [PMID: 9927609]





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NB7160 Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]

NBP2-24891 Rabbit IgG Isotype Control

NBP1-42461 Recombinant Human Tyrosine Hydroxylase His Protein

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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