

Rabbit Tyrosine Hydroxylase Polyclonal Antibody | anti-TH antibody

Tyrosine Hydroxylase Rabbit pab Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA36710	Rabbit	Human, Mouse, Rat	Flow Cytometry, Functional Assay, Immunohistochemistry, Western Blot

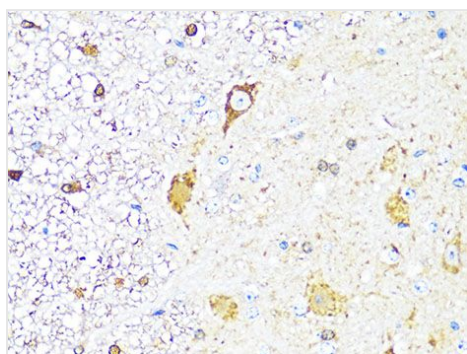
PRODUCT SYNONYMS

Tyrosine Hydroxylase; Polyclonal Antibody; Tyrosine Hydroxylase Rabbit pab Antibody; TH; TH antibody; DYT14 antibody; DYT5b antibody; TYH antibody; Tyrosine 3-monooxygenase antibody; Tyrosine 3-hydroxylase antibody; anti-TH antibody

PRODUCT SPECIFICATIONS

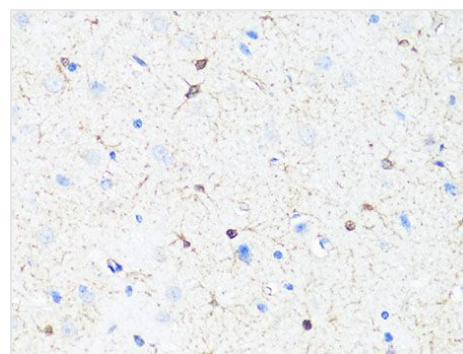
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Affinity purification
Form/Format	Liquid
Sequence Length	497
Applicable Applications for anti-TH antibody	FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	Fusion protein of human Tyrosine Hydroxylase
Buffer	PBS with 0.1% Sodium Azide, 50% Glycerol,
Preparation and Storage	Upon delivery aliquot and store at -20 degree C or -80 degree C.

IMAGES



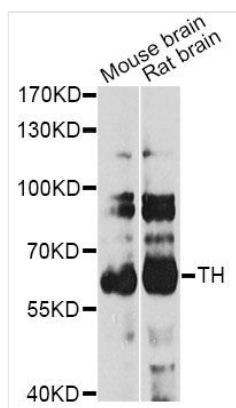
IHC (Immunohistochemistry)

Immunohistochemistry of paraffin-embedded mouse spinal cord using TH Antibody at dilution of 1:100 (40x lens).



IHC (Immunohistochemistry)

Immunohistochemistry of paraffin-embedded rat brain using TH Antibody at dilution of 1:100 (40x lens).



WB (Western Blot)

Western blot analysis of extracts of various cell lines, using TH antibody at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit. Exposure time: 15s.

ADDITIONAL INFORMATION

Related Product Information for anti-TH antibody	Rabbit polyclonal to Tyrosine Hydroxylase Tyrosine hydroxylase (TH) catalyzes the rate-limiting step in the synthesis of the neurotransmitter dopamine and other catecholamines. TH functions as a tetramer, with each subunit composed of a regulatory and catalytic domain, and exists in several different isoforms (1,2). This enzyme is required for embryonic development since TH knockout mice die before or at birth (3). Levels of transcription, translation and posttranslational modification regulate TH activity. The amino-terminal regulatory domain contains three serine residues: Ser9, Ser31 and Ser40. Phosphorylation at Ser40 by PKA positively regulates the catalytic activity of TH (4-6). Phosphorylation at Ser31 by CDK5 also increases the catalytic activity of TH through stabilization of TH protein levels (7-9).
References	1. Kumer, S.C. and Vrana, K.E. (1996) J Neurochem 67, 443-62. 2. Bodeau-Péan, S. et al. (1999) J Biol Chem 274, 3469-75. 3. Kobayashi, K. et al. (1995) J Biol Chem 270, 27235-43. 4. Lew, J.Y. et al. (1999) Mol Pharmacol 55, 202-9. 5. Vié, A. et al. (1999) J Biol Chem 274, 16788-95. 6. Lindgren, N. et al. (2000) J Neurochem 74, 2470-7. 7. Moy, L.Y. and Tsai, L.H. (2004) J Biol Chem 279, 54487-93. 8. Lehmann, I.T. et al. (2006) J Biol Chem 281, 17644-51. 9. Saraf, A. et al. (2007) J Biol Chem 282, 573-80.

NCBI AND UNIPROT INFORMATION

NCBI GI #	88900503
NCBI GeneID	7054
NCBI Accession #	NP_000351.2
NCBI GenBank Nucleotide #	NM_000360.3
UniProt Accession #	P07101 ; Q15585 ; Q15588 ; Q15589 ; B7ZL70
Molecular Weight	528
NCBI Official Full Name	tyrosine 3-monooxygenase isoform b
NCBI Official Synonym Full Names	tyrosine hydroxylase
NCBI Official Symbol	TH
NCBI Official Synonym Symbols	TYH; DYT14; DYT5b
NCBI Protein Information	tyrosine 3-monooxygenase; dystonia 14; tyrosine 3-hydroxylase
UniProt Protein Name	Tyrosine 3-monooxygenase
UniProt Gene Name	TH

UniProt Synonym Gene Names	TYH; TH
UniProt Entry Name	TY3H_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/tyrosine-hydroxylase-antibody-flow-cytometry-immunohistochemistry-western-blot-elisa/36710>